



•生物编目• 2021年新物种专题

中国植物新分类群、新名称变化2021年年度报告

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摘要: 2021年中国共发表高等植物新分类群342个, 其中新科1个, 新属11个, 新种289个, 新亚种3个, 新变种18个, 新变型20个。新发表的物种分别属于苔类植物门(5个新种)、藓类植物门(4个新种)、石松门(3个新种)、蕨类植物门(22个新种)、裸子植物门(2个新种)、被子植物门(253个新种)。其中111个新种同时提供了详细的分子证据, 76个在发表时就依据IUCN标准被评估处于受威胁的状态。云南、西藏、四川和广西等西南4省区发表的新种最多, 共占全国新种发表总数的63.3%; 新种发现密度最高的省级行政单位是台湾、海南、云南、浙江和广东等省区。2021年中国共发表植物新组合(等级) 134个, 新名称9个; 发表国家级新记录62个; 将92个名称处理为62个名称的异名; 对7个名称进行了应用订正; 重新承认了2个属和10个物种; 新指定后选(新)模式物种49个; 还新发现多年未曾发现的物种9个, 排除物种分布7个。2021年中国高等植物净新增364个分类群, 占全国植物总数的0.98%, 230个高等植物名称发生变动, 占全国植物总数的0.62%。

关键词: 高等植物; 新分类群; 名称变动; 中国

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2021 annual report on new taxa and nomenclatural changes of Chinese plants

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ABSTRACT

Aim: Each year, more than 220 species from China are documented as new species. However, much of this information has yet to be updated in international databases. Here we aimed to update the annual report with the newly discovered taxa and name changes of existing plants in China from the year 2021.

Methods: Information on newly discovered taxa and name changes for Chinese higher plants were collected by reviewing 222 journals and monographs, where 380 articles published in 62 journals and 2 monographs concerning the new taxa and nomenclatural changes of higher plants published in 2021. For each species, we compiled the scientific name, author, location, type specimen, and other relevant information.

Results: In 2021, a total of 342 new taxa of higher plants from China were reported, including 1 new family, 11 new genera, 289 new species, 3 new subspecies, 18 new varieties, and 20 new forms. The newly described species belong to the Marchantiophyta (5 species), Bryophyta (4 species), Lycopodiophyta (3 species), Pteridophyta (22 species), Gymnospermae (2 species), and Magnoliophyta (253 species). A total of 111 new species had been published with detailed molecular evidence, 76 of which were considered threatened species according to IUCN standards. Four provinces in southwestern China, including Yunnan, Xizang, Sichuan, and Guangxi, were the sources of the majority of the discoveries. The species found in these regions account for 63.3% of the total reports collected in our review.

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Taiwan, Hainan, Yunnan, Zhejiang, and Guangdong have the highest densities of newly discovered species. Additionally, we identified 134 new combinations and new rank names. We identified 9 replacement names transferred from other species distributed across China. Sixty-two plants were reported as novel to China, 92 names were given as synonyms of 62 taxa, 7 names were revised, and 2 genera and 10 species were re-recognized. Further, 49 names were designated lectotypes or neotypes, 9 species were rediscovered, and 7 were considered no longer present in China.

Conclusion: In 2021, a net increase of 364 new plant taxa of higher plants occurred in China, accounting for 0.98% of the total growth. Also, 230 plant names have been changed, accounting for 0.62% of total changes. The high number of new plant species found in China has been consistent and held in the year 2021, implying that the country, mainly located in the subtropical regions of the northern hemisphere, still has many plants waiting to be discovered.

Key words: higher plants; new taxa; new name changes; China

中国平均每年发表220个维管植物新分类群,发现32个国家级新记录,世界上每年新发表的维管植物类群有1/10来自中国,且没有明显的减缓趋势(Du et al, 2020)。2020年共发表中国境内高等植物新种312个,新种下等级26个,国家级新记录48个,是1990年以来中国高等植物新种发表数量最多的一年。年度植物名称新增和变动的数量占到全国总植物物种数量的1.5% (杜诚等, 2021)。国际植物名称索引(International Plant Names Index, IPNI, <http://www.ipni.org>)对于中国植物新分类群的收录并不及时,例如根据IPNI的统计,2020年从中国发现并描述了247个维管植物新种,但实际发表了306种中国维管植物(万霞和张丽兵, 2021)。所以有必要快速地整理滞后收录的文献,补充国际数据库对中国植物的漏载,并增加一些除新类群之外的与植物名称有关的信息。

我们系统检索和整理了曾经发表植物类群或名称的222种期刊和新出版的相关书籍,并通过中国知网(<https://www.cnki.net/>)、IPNI和Tropicos(<http://www.tropicos.org/>)进行交叉检索和系统梳理。结果显示: 2021年度有62个期刊发表的380篇文章和2部著作涉及到高等植物的新分类群(新属、新杂交属、新种、新杂交种、新亚种、新变种、新变型)、新组合(等级)名称、新名称、国家级新记录、新异名、后选(新)模式指定以及名称应用订正等资料。这些新分类群和名称变化将影响中国的植物物种编目,特别是植物志、植物名录等著作在编写过程中需要对这些变化做出处理。

我们也整理了中国植物新分类群和新名称变化文献目录2021 (附录1),将2021年发表的高等植物新分类群、新记录类群、名称变动、模式化及其

他涉及名称变动的情况以条目的形式给出。该目录按照植物大类排序,大类内按科名字母顺序排列,每个科内按照物种学名字母顺序排列条目。每个条目包含了物种学名、具体分类学处理、发表文献信息和分布信息,以及文章对应的doi编号。对于新物种还给出了IUCN评估等级和物种发表证据类型。该目录还给出了本年度所有收录期刊和著作的详细信息。

1 新发表物种的基本状况

经过数据清理和统计,2021年共发表中国境内高等植物新分类群342个,其中新科1个;新属11个;新种289个(含3个杂交种),新种下等级41个(其中亚种3个,变种18个,变型20个);新组合(等级)134个,新名称9个。国家级新记录62个;92个名称被处理为62个名称的异名。新指定后选(新)模式物种49个;还对7个名称进行了应用订正;重新确立2个属和10个物种的相应地位,重新发现了9个物种,排除了7个物种在中国的分布。

2021年发表的289个新种中,苔类植物门有5个、藓类植物门4个、石松门3个、蕨类植物门22个、裸子植物门2个、被子植物门253个。苔藓植物、蕨类植物和裸子植物的新种发表数量显著少于被子植物。289个新种中有111个在发表文献中提供了详细的分子系统学研究证据,占新种总数的38.4%,较2020年的27.6%有进一步的提高。

289个新种中有133个依据IUCN标准评估了濒危等级,其中极危(CR) 37个、濒危(EN) 19个、易危(VU) 12个、近危(NT) 8个、无危(LC) 21个、数据缺乏(DD) 36个。新发表的物种中有76种(占比26.3%)在发表时已经处于受威胁状态,较2020年

的25.0%有所提高。也就是说有1/4的物种在发表的时候就处于受威胁状态。

2 新发表和发现的科、属级分类群

2021年中国高等植物共发表了1个新科和11个新属, 其中苔类植物1个新科、2个新属, 蕨类植物1个新属, 被子植物8个新属, 除蒴果麻属(*Capsulea Yong Wang tetrakis*)由于作者撤稿(王勇, 2021)而应属无效名称外, 其余1科、10属的发表均提供了详细的分子生物学证据。这些新科、属包括:

秃瓣苔科(*Obtusifoliaceae*)是挺叶苔科、裂叶苔科、合叶苔科复合群中的一个独立分支。包含秃瓣苔属(*Obtusifolium*)和棘叶苔属(*Konstantinovia Bakalin & Fedosov*)。棘叶苔属是基于产自云南丽江高海拔地区的美丽棘叶苔(*Konstantinovia pulchra Bakalin & Fedosov*)建立的新属(Bakalin et al, 2021a)。但由于*Obtusifolium*是1912年及以后使用拉丁文形态描述术语充当的属名(Art. 20.2), 因而不合格, 相应的新科*Obtusifoliaceae*也是一个不合格的名称(Turland et al, 2018)。

封怀木属(*Fenghwaia* G. T. Wang & R. J. Wang)是基于生长在广东江门沿海地区的新种封怀木(*Fenghwaia gardeniicarpa* G. T. Wang & R. J. Wang)建立的新属(Wang et al, 2021)。属名是为了纪念中国著名植物分类学家陈封怀(Fenghwai Chen, 1900–1993)研究员。

李恒菊属(*Lihengia* Y. S. Chen & R. Ke)是从厚喙菊属(*Dubyaea*)独立出来的单系类群, 是分布于云南高黎贡山地区的独特类群, 包含矮小厚喙菊(*Lihengia gombalana* (Hand.-Mazz.) Y. S. Chen & R. Ke = *Dubyaea gombalana* (Hand.-Mazz.) Stebbins)和棕毛厚喙菊(*Lihengia amoena* (Hand.-Mazz.) Y. S. Chen & R. Ke = *Dubyaea amoena* (Hand.-Mazz.) Stebbins) 2个物种(Chen et al, 2021)。属名是致敬中国著名植物分类学家李恒(Heng Li, 1929–)研究员。

红新月蕨属(*Menisciopsis* (Holttum) S. E. Fawc. & A. R. Sm.)是从新月蕨属(*Pronephrium*)独立出来的类群, 主要分布在亚洲东部和南部地区。中国仅有该属1种, 即披针新月蕨(*Menisciopsis penangiana* (Hook.) S. E. Fawc. & A. R. Sm. = *Pronephrium penangianum* (Hook.) Holtt.), 广布于中国中部和南

部地区, 是该属分布的北缘物种(Fawcett & Smith, 2021)。

异齿豆属(*Ohashia* X. Y. Zhu & R. P. Zhang)是从鱼藤属(*Derris*)独立出来的单系类群, 仅分布在云南东南部。该属仅1种, 即云南鱼藤(*Ohashia yunnanensis* (Chun & F. C. How) X. Y. Zhu & R. P. Zhang = *Derris yunnanensis* Chun & F. C. How)。属名是致敬日本著名植物分类学家大桥广好(Hiroyoshi Ohashi, 1936–)教授(Zhang et al, 2021)。

拟合叶耳草属(*Parainvolucrella* R. J. Wang)是根据在广西发现的1个中国新记录种拟合叶耳草(*Parainvolucrella scabra* (Wall. ex Kurz) M. D. Yuan & R. J. Wang = *Hedyotis scabra* Wall. ex Kurz), 从毛瓣耳草属(*Hedyotis*)和水线草属(*Oldenlandia*)复合群中独立出来的单型属, 分布于中国广西、缅甸、印度东部及泰国(Xu et al, 2021)。

裂镰萼苔属(*Protoharpanthus* Bakalin, Fedosov & D. G. Long)是根据产自云南贡山的新种裂镰萼苔(*Protoharpanthus sinensis* Bakalin, Fedosov & D. G. Long)建立的新属(Bakalin et al, 2021b)。尽管该属提供了分子系统学证据, 但明显与镰萼苔属(*Harpanthus*)其他类群构成姊妹群, 且除了腹叶深二裂外, 在形态上没有显著的特征, 建立新属似有不妥。因该属的发表符合命名法规的要求, 故本文也收录了, 以待后续相关学者进一步研究。

补求草属(*Puchiumazus* Bo Li, D. G. Zhang & C. L. Xiang)是根据模式标本采集后130年没有再被采集到的狭叶通泉草(*Puchiumazus lanceifolius* (Hemsl.) Bo Li, D. G. Zhang & C. L. Xiang = *Mazus lanceifolius* Hemsl.)自通泉草属(*Mazus*)独立的单型属。该属因茎四棱形和狭长叶片而与通泉草属显著不同, 分布于湖北和四川(Xiang et al, 2021)。属名是纪念中国著名植物分类学家钟补求(Puchiu Tsoong, 1906–1981)研究员。

守标蒜属(*Shoubiaonia* W. H. Qin, W. Q. Meng & Kun Liu)是根据产自云南石屏的云南守标蒜(*Shoubiaonia yunnanensis* W. H. Qin, W. Q. Meng & Kun Liu)建立的新属, 该属因花叶同期而与石蒜属(*Lycoris*) (花、叶不同期)显著不同, 仅产自云南石屏(Qin et al, 2021)。属名是致敬安徽植物分类学专家周守标(Shoubiao Zhou, 1964–)教授。

同培竹属(*Tongpeia* Stapleton)是基于棉花竹(*Tongpeia fungosa* (T. P. Yi) Stapleton = *Fargesia fungosa* T. P. Yi)从箭竹属(*Fargesia*)独立出来的小属,该属秆光滑,叶片小横脉不清晰,分布于中国西南地区(Stapleton, 2021)。属名是纪念中国竹子专家易同培(Tongpei Yi, 1933–2016)教授。

此外,还有作为中国植物新记录属的史库菊属(*Schkuhria*)。史库菊(*Schkuhria pinnata*)是发现于山东的1种归化植物新记录,原分布于南美洲地区,现已在非洲、欧洲、大洋洲等地区归化,很可能是随货物进入中国,并在山东莒县形成了较大种群(辛晓伟等, 2021);膜苞小芹属(*Similisinocarum*)是基于在西藏聂拉木发现的新记录种膜苞小芹(*Similisinocarum normanianum*)的活体材料,通过形态与分子系统学研究,认为膜苞小芹属与丝瓣芹属(*Acronema*)、羽苞芹属(*Oreocomopsis*)和小芹属(*Sinocarum*)分支构成姊妹群,所以膜苞小芹应当从小芹属独立出来(Guo et al, 2021);分布在中国、印度及尼泊尔等地的滇羌活属(*Pterocyclus*),系统位置位于广义棱子芹属(*Pleurospermum*)复合群中,通过分子系统学研究认为该属的物种构成一个单系分支,应当予以独立(Zhou et al, 2021)。

3 新分类群所属的科属统计

2021年发表的330个种及种下新分类群隶属于84科196属。科级水平主要集中在兰科、毛茛科、苦苣苔科、禾本科、菊科、秋海棠科、唇形科、姜科、天门冬科、豆科、茜草科、凤仙花科、报春花科、蔷薇科、肿足蕨科、夹竹桃科、鳞毛蕨科和野牡丹科等传统的物种数量很多的“大科”或中国西南地区的热带、亚热带石灰岩地区多样性水平较高的科。发表5个物种以上的科及主要命名人见附录2。属级水平主要集中在欧银莲属(*Anemone*)、秋海棠属(*Begonia*)、凤仙花属(*Impatiens*)、肿足蕨属(*Hypodematum*)、石豆兰属(*Bulbophyllum*)、翠雀属(*Delphinium*)、唐松草属(*Thalictrum*)、蜘蛛抱蛋属(*Aspidistra*)、紫堇属(*Corydalis*)、珍珠菜属(*Lysimachia*)、报春苣苔属(*Primulina*)、螺序草属(*Spiradiclis*)、葡萄属(*Vitis*)、玉山竹属(*Yushania*)、姜属(*Zingiber*)等中国多样性水平较高的属。发表3个物种以上的属及主要命名人见附录3。

4 新分类群和新记录种的省级分布

2021年发表的中国高等植物新种、国家级新记录种以及新种下等级类群主要分布在云南、西藏、四川、广西等西南省区。云南省范围内发表了86个新种、3个种下新分类群(2个新变种和1个变型)以及20个国家级新记录种,大约占中国植物新种数量的29.7%。此外,西藏(33个新种、1个新亚种、2个新变种、1个新变型和15个新记录)、四川(35个新种、3个新变种)、广西(29个新种和4个新记录)等也发现了大量的新种和新记录种。总面积仅占中国陆地总面积1/4的4个省区其新种发表数量占到了2021年中国植物新种数量的63.3%,总体上物种发表数量从西南到东北呈现减少趋势(图1)。

排除面积因素,新种发现密度最高的5个省级单位分别是台湾(10个新种、1个新变种和4个新记录)、海南(9个新种和3个新记录)、云南、浙江(19个新种、2个新亚种、7个新变种、17个新变型和3个新记录)和广东(23个新种和1个新变型)。

物种发表数量和密度较高的省份与2020年相比基本相同,仅排名顺序有部分变化。2021年广东省的物种发现密度自2000年来首次排入第5名,可能与广东位于亚热带地区、拥有丰富的地貌并受到当地研究机构更多的关注有关。云南长期被国内外

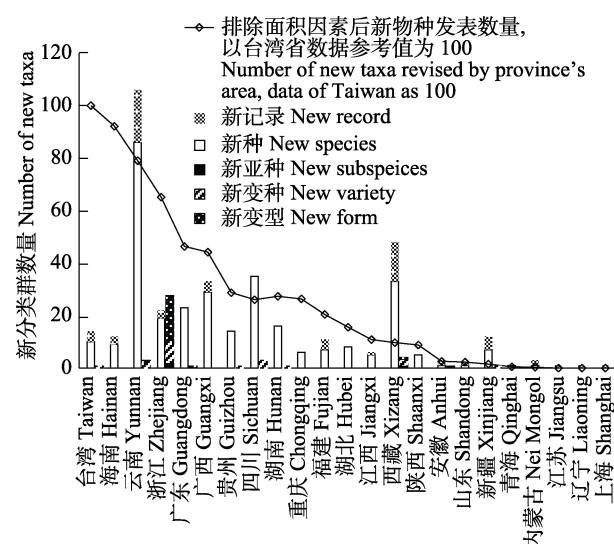


图1 2021年中国23个省区发表的新分类群和国家级新记录种数量(其他省份没有发现新分类群或新记录)

Fig. 1 The number of Chinese new taxa and newly recorded taxa published by 23 provinces in 2021. Provinces without new taxa or new record were not listed.

学者广泛重视, 2020年物种发表数量和密度均位于全国首位。2021年云南的数据又回归到2000年来的平均水平, 数量仍是第一, 但密度低于台湾和海南这两个南部岛屿。浙江新种发表数量与上年基本持平, 但种下等级发表数量超过了物种, 这种现象在其他省份新分类群发表中极为少见。浙江新植物资料大多由本地学者研究并集中发表在《地方综合性刊物》上, 常以形态性状比较为研究手段。北京、天津、宁夏、河北、黑龙江、吉林、山西、香港和澳门没有关于新种、国家级新记录物种的报道。

5 新组合(等级)、新名称及新异名发表

2021年新组合(等级)名称及新名称带来的名称变化主要集中在禾本科(36个)、金星蕨科(30个)、葡萄科(11个)、毛茛科(8个)、鸭跖草科(6个)、豆科(6个)等几个较受关注的科。前6个科共有97个名称组合, 约占年度名称组合总量的68.3%, 组合的类群集中程度较新种更重。

Stapleton (2021)对中国-喜马拉雅地区的广义箭竹属进行研究, 基于形态学和系统发育树的拓扑结构构建了11个小属, 其中1个新属, 同时对31个物种进行了组合, 这些物种大部分分布在中国; Fawcett和Smith (2021)基于形态学、生物地理学和分子系统学数据对金星蕨科进行调整, 重新划分了14个属, 建立了4个新属, 组合了176个名称, 其中30个物种分布在中国; Parmar等(2021)利用形态和分子证据对葡萄科大麻藤属(*Cayratia*)和乌菰莓属(*Causonis*)进行分析处理, 发表了10个名称组合和2个新种。Lee等(2021)对东亚和东南亚鸭跖草科植物进行形态学和分子系统学研究, 对科下系统进行重新划分, 通过名称组合建立了新族和亚族, 并将国产孔药花属(*Porandra*)植物全部转入穿鞘花属(*Amischotolype*)。

2021年, 通过详细的形态学与系统学研究, 鼠李科的亮叶雀梅藤(*Sageretia lucida*)、葡萄科的腺枝葡萄(*Vitis adenoclada*)、豆科的云南山黑豆(*Dumasia yunnanensis*)以及前述伞形科膜苞小芹属和滇羌活属的7个物种, 共10个物种恢复了种级单位, 不再被视为其他名称的异名。对禾本科、姜科、十字花科、茜草科及凤尾蕨科的7个物种的名称应用也进行了修订。

2021年, 新发现多年未曾发现的9个物种, 分别隶属于大戟科、伞形科、唇形科、安息香科、通泉草科、木灵藓科、罂粟科和爵床科。这类重新发现物种的数量较上年增加, 说明研究者对一些重要的、多年考察没有发现的物种进行了专门的寻找, 这对那些分布狭窄、数量稀少的物种的研究有着重要意义, 很多重新发现物种提供的活体材料为阐明其系统位置提供了基础条件。此外还排除了7个物种在中国的分布, 其中木灵藓科4种、番荔枝科1种、茜草科1种、豆科1种。

2021年有92个过去发表的植物名称被处理为62个名称的异名。除去被处理为其他物种异名的物种, 再排除中国分布的类群, 2021年高等植物净增加364个分类群, 占全国高等植物总量的0.98%。当年度新发表的研究论文和专著中的名称组合、新异名归并, 导致230个高等植物名称发生变动, 占全国高等植物总数的0.62%。这些分类学处理中, 特别是那些仅根据形态性状发表的类群, 最终能有多少纳入中国植物物种清单, 还需要进一步研究。

6 发表植物新分类群和名称变动的学者

2021年中国高等植物342个新分类群由274个中外作者团队发表。其中230个中国作者团队发表了285个新分类群, 24个外国作者团队发表了32个新分类群, 20个中外合作团队发表了其余的25个新分类群。这些中外作者团队中有中国学者337人, 外国学者54人。2021年发表中国植物物种数量最多的中国学者是陈征海(33个新分类群), 外国学者是张丽兵(10个新分类群)。发表5个以上分类群的作者见附录4。

2021年中国高等植物134个新组合(等级)名称和9个新名称由61个中外作者团队发表。其中44个中国学者团队发表了54个名称, 14个国外学者团队发表了80个名称, 3个中外合作团队发表了9个名称。这些中外作者团队中有中国学者74人, 外国学者20人。发表5个以上新组合的作者见附录5。

2021年参与高等植物命名的中国学者有367人, 其中116人是第一次参与命名, 与去年相比, 总参与人数和首次参与命名的人数都有小幅增加, 但命名物种及组合名称总数较上年减少, 说明学者更加分散。尽管《国际藻类、菌物和植物命名法规》对

植物名称的作者引证没有严格的形式要求,但习惯上仍然按照IPNI等国际名称索引中使用的形式进行引证。由于IPNI对中国学者的了解程度比较欠缺,条目中有关中国学者姓名的缩写(标准拼写)存在较多问题。IPNI收录的参与植物命名的近3,000位中国学者中,有366人的缩写方式存在不同的问题。为了解决中国植物命名人的标准拼写问题,杜诚和马金双(2022)出版的《中国植物分类学者》给2020年(含)之前发表过植物名称的学者推荐了标准拼写形式,2021年新增的植物命名人基本信息见附录6。

在植物学名中,常会用植物的学名致敬一些前辈先驱或者采集人,这些信息往往被隐藏在原始文献中无法有效揭示。2021年发表的中国植物新分类群中有45个是以致敬人名的方式命名的,共有38位学者、采集人或与作者有关的人员被致敬。除了前文提到的一些属名以人名命名外,还有一些学者是以种加词的形式被致敬。被致敬次数最多的是中国科学院昆明植物研究所的孙航研究员,因其在西南横断山区的深入研究和卓越成果,为4个植物名称的被致敬人。云南省普洱市林草局叶德平高级工程师长期从事野生兰科植物调查,2020年不幸在野外遇难,为3种植物的被致敬人。中国科学院昆明植物研究所的李恒研究员在高黎贡山地区进行了深入研究,特别是她在61岁时还开展独龙江越冬科考,成为后辈的楷模。2021年新发表的类群中,致敬她的植物有1属2种。中国科学院昆明植物研究所的武素功研究员因在植物区系、植物资源、植物多样性保护以及蕨类植物研究领域做出的贡献,被作为2种蕨类植物的纪念人。2021年中国植物命名被致敬人中外籍人有6位,其中3位(David E. Boufford 鲍棣伟、Hiroyoshi Ohashi 大桥广好、Libing Zhang 张丽兵)都是长期与中国学者保持深入关系的外国友人或华人。我们整理了2021年学名中包含致敬其他学者或采集人的分类群信息,可在附录7中查询。

7 发表中国高等植物名称的出版物状况

2021年中国植物新分类群及影响物种编目相关论文的发表数量较上年度(405篇)有小幅下降,为380篇。刊载这些论文的刊物仍然比较集中,14种期刊包揽了78.3%的文章和80.1%的新种,其余48种期刊收录了剩余的部分。

2021年发表新分类群最多的刊物仍然是新西兰的*Phytotaxa*,发表中国植物分类学相关的论文131篇,包含90个新种;Pensoft出版机构创办的开放获取刊物*PhytoKeys*发表了58篇涉及中国植物分类群的文章,包含了45个新种;瑞典植物学会主办的*Nordic Journal of Botany*发表了20篇涉及中国植物分类群的文章,包含了22个新种。

2021年芬兰植物学会主办的*Annales Botanici Fennici*涉及中国植物类群的文章较2020年(15篇)减少(8篇);美国密苏里植物园主办的植物分类学期刊*Novon*在2021年仅出版1期(传统为4期),收录中国植物类群的文章从平均每年14篇减少至3篇。

中国台湾植物分类学会主办的*Taiwania*长期稳定地发表分类学相关文章,2021年发表了15篇涉及中国植物分类群的文章,包含了19个新种;*Plant Diversity*自改版后很少接受新种描述类的文章,但2021年出版了一期兰科植物专刊,并开始接受有充分证据的类群研究,发表了10篇涉及中国植物分类群的文章,包含了28个新种;*Journal of Systematics*

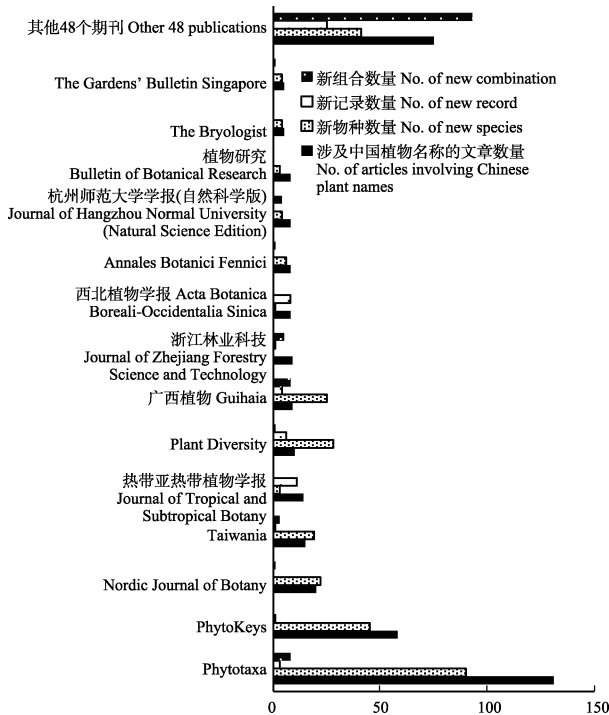


图2 2021发表中国植物名称相关论文最多的14期刊及其新种、新记录和新组合的发表数量

Fig. 2 Top 14 journals in which new names and name changes of Chinese plants were published, and the number of new species, record and combinations they published

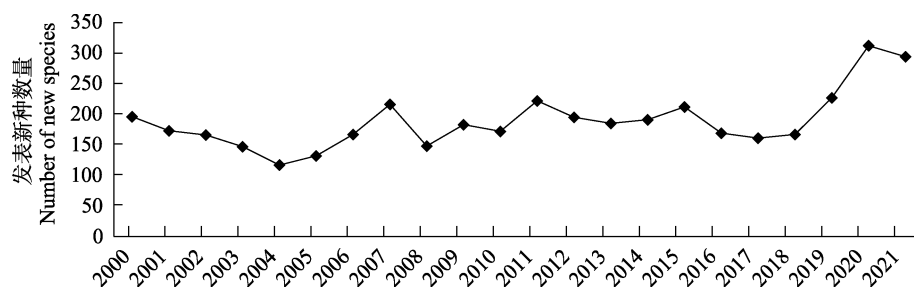


图3 2000年以来中国年度植物新种发表数量

Fig. 3 Number of new species described from China since 2000

and Evolution (原《植物分类学报》)目前类群处理方面的文章一般较少, 2021年仅有1篇, 包含1个新组合。

《热带亚热带植物学报》《广西植物》《西北植物学报》《植物研究》等刊物主要收录新记录、新发现等类型文章, 新种描述类的一般较少。2021年《广西植物》出版一期增刊, 刊载了王文采先生的一篇《中国银莲花属新分类》, 描述了2新组、4新系、13新种、1新亚种、4新变种, 还有一些新组合和新异名。

《浙江林业科技》和《杭州师范大学学报(自然科学版)》也有较多的浙江及毗邻地区的植物类群研究发表, 但属于地方性综合刊物, 同行评议倾向于邀请本地学者。

8 结论与讨论

2021年中国植物新种发表数量仍然处于高位(图3), 说明主体位于北亚热带和北温带的中国仍然有很多植物等待被发现, 特别是在云南、台湾、海南等热带、亚热带省区。2021年分子证据的使用率达到了历史最高水平(38.6%), 预计未来无论是研究者还是审稿人都会更加重视分子证据的使用。中国植物物种编目工作不能因为《中国植物志》的完成而结束, 反而由于研究的不断深入带来物种新发现、类群新调整、名称新变化等新成果, 要不断地定期动态完善。

我国的《植物分类学报》是分类学的专业期刊, 1951年创刊以来发表了大量新种和分类学修订的论文, 为《中国植物志》及其英文版*Flora of China*的编研做出了重要贡献。2008年刊名改为*Journal of Systematics and Evolution*后, 几乎不再接受发表以分类群处理为主的分类学论文。原投稿于《植物分

类学报》的植物分类学研究论文则逐步集中在*Phytotaxa*、*PhytoKeys*等外国刊物中, 实际上这些期刊的编辑、审稿人大量由中国学者无偿担任。这样的现状不但会造成大量科研经费和数据库订阅费的占用, 而且不利于国内刊物的健康成长。建议我国重新创办专门的植物分类学期刊, 形成中国植物分类学研究的新阵地, 这将会对研究和认识我国丰富的植物多样性、促进分类学的二次繁荣、掌控科研话语权大有裨益。

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附录 Supplementary Material

附录1 2021年中国植物新分类群和新名称变化文献目录

Appendix 1 Bibliography of new taxa and name changes for Chinese plants 2021

<https://www.biodiversity-science.net/fileup/PDF/2022207-1.pdf>

附录2 2021年发表中国植物5个物种以上的科及主要的命名人

Appendix 2 Families of more than 5 new species described from China in 2021 and their main authors

<https://www.biodiversity-science.net/fileup/PDF/2022207-2.pdf>

附录3 2021年发表中国植物3个物种以上的属及主要的命名人

Appendix 3 Genera of more than 3 new species described from China in 2021 and their main authors

<https://www.biodiversity-science.net/fileup/PDF/2022207-3.pdf>

附录4 2021年发表5个以上新分类群的中外学者统计

Appendix 4 List of Chinese and foreign authors who published more than 5 new taxa in 2021

<https://www.biodiversity-science.net/fileup/PDF/2022207-4.pdf>

附录5 2021年发表5个以上新组合的中外学者统计

Appendix 5 List of Chinese and foreign authors who published more than 5 new combinations in 2021

<https://www.biodiversity-science.net/fileup/PDF/2022207-5.pdf>

附录6 2021年中国植物新分类群学名中的中国作者名录

Appendix 6 List of Chinese authors in the scientific names of new taxa of Chinese plants in 2021

<https://www.biodiversity-science.net/fileup/PDF/2022207-6.pdf>

附录7 2021年中国植物分类群学名中被致敬人名录

Appendix 7 List of honored persons in the scientific names of new taxa of Chinese plants in 2021

<https://www.biodiversity-science.net/fileup/PDF/2022207-7.pdf>

附录1 2021年中国植物新分类群和新名称变化文献目录

Appendix 1 Bibliography of new taxa and name changes for Chinese plants 2021

2021 年中国植物新分类群和新名称变化文献目录

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Marchantiophyta 苔类植物门

Aneuraceae 绿片苔科

Riccardia vitrea Furuki [New Record]

YIN Xiang-bo, LAMARA Mebarek, LIYANAGE Nuwan Sameera, ZHU Rui-liang, FENTON Nicole J. *Riccardia vitrea* (Aneuraceae), a Liverwort Species New to China and North America. *Herzogia* [J] 34(2): 279-285. [E] 2021: [280]. doi: 10.13158/heia.34.2.2021.279

CHINA (Anhui, Fujian, Hainan, Yunnan); **CANADA, RUSSIA**

Evidence: morphology; rbcL

Frullaniaceae 耳叶苔科

Frullania tamarisci (L.) Dumort. var. *balansae* (Steph.) S. Hatt. 欧耳叶苔圆叶亚种 [New Record]

JIA Yu, WU Jin-ping. *Bryophyte Diversity in Mt. Meihua National Nature Reserve, Fujian* [B]: 1-264. [C] 2021: [85].

CHINA (Fujian); **VIETNAM**

Evidence: morphology

Frullania tibetica Mamontov & J. J. Atwood [New Species]

ATWOOD John J., MAMONTOV Yuriy S. *Frullania tibetica* (Frullaniaceae), a New Species from Tibet, China. *Novon* [J] 29: 305-310. [E] 2021: [306]. doi: 10.3417/2021715

TYPE: K. C. Chang & J. Y. Feng 15109 (holotype: MO-4441058; isotype: MHA)

CHINA (Xizang*)

Evidence: morphology

Gymnomitriaceae 全萼苔科

Gymnomitrium schusteranum Konstant., D. G. Long, Mamontov & Vilnet [New Species]

KONSTANTINOVA Nadezhda A., LONG David G., MAMONTOV Yuriy S., VILNET Anna A. *Gymnomitrium schusteranum* (Gymnomitriaceae), A New Species from the Sino-Himalaya. *Arctoa* [J] 30: 149-158. [E] 2021: [150]. doi: 10.15298/arctoa.30.16

TYPE: D. G. Long 35728 (holotype: KPABG; isotype: E, KUN, CAS, MO, MHA); Z. Iwatsuki & al. B9 (paratype: MO, MHA)

CHINA (Yunnan*); **INDIA**

Evidence: morphology; ITS, trnL-F

Harpanthaceae 镰萼苔科

Protoharpanthus Bakalin, Fedosov & D. G. Long [New Genus]

BAKALIN Vadim, FEDOSOV Vladimir, LONG David G., FEDOROVA Alina, MALTSEVA Yulia. *Protoharpanthus* gen. nov. (Harpanthaceae) – a Relict Relative of Harpanthus from the Sino-Himalaya. *The Bryologist* [J] 124(2): 218-229. [E] 2021: [222]. doi: 10.1639/0007-2745-124.2.218

TYPE: *Protoharpanthus sinensis* Bakalin, Fedosov & D. G. Long

Evidence: morphology; rps4, trnL-F, trnG

Protoharpanthus sinensis Bakalin, Fedosov & D. G. Long [New Species]

BAKALIN Vadim, FEDOSOV Vladimir, LONG David G., FEDOROVA Alina, MALTSEVA Yulia. *Protoharpanthus* gen. nov. (Harpanthaceae) – a Relict Relative of Harpanthus from the

Sino-Himalaya. *The Bryologist* [J] 124(2): 218-229. [E] 2021: [223]. doi: 10.1639/0007-2745-124.2.218

TYPE: D. G. Long 35924 (holotype: E-00997077; isotype: CAS, KUN, MO, MW, VBGI)

CHINA (Yunnan*)

Evidence: morphology; rps4, trnL-F, trnG

Jubulaceae 毛耳苔科

Jubula pennsylvanica (Steph.) A. Evans 北美毛耳苔 [New Record]

JIA Yu, WU Jin-ping. *Bryophyte Diversity in Mt. Meihua National Nature Reserve, Fujian* [B]: 1-264. [C] 2021: [86].

CHINA (Fujian); **UNITED STATES**

Evidence: morphology

Lejeuneaceae 细鳞苔科

Ptychanthus striatus (Lehm. & Lindenb.) Nees var. *motuoensis* Jian Wang bis, Gradst. & R. L. Zhu [New Variety]

DAI Zun, XING Shi-chen, GRADSTEIN S. Robbert, CHEN Xing, ZHU Rui-liang, WANG Jian. New Species or Intraspecific Variation? A Case Study of *Ptychanthus striatus* var. *motuoensis* var. nov. (Marchantiophyta: Lejeuneaceae) from Xizang, China. *The Bryologist* [J] 124(4): 475-483. [E] 2021: [477]. doi: 10.1639/0007-2745-124.4.475

TYPE: J. Wang 20111014-14A (holotype: HSNU)

CHINA (Xizang*)

Evidence: morphology; trnL-trnF, trnG, nrITS

Obtusifoliaceae [nom. inval.] 秃瓣苔科

Konstantinovia Bakalin & Fedosov [New Genus]

BAKALIN Vadim A., FEDOSOV Vladimir E., FEDOROVA Alina V., MA Wen-zhang. *Obtusifoliaceae*, a New Family of Leafy Liverworts to Accommodate *Konstantinovia*, Newly Described from the Hengduan Mts. (South China) and *Obtusifolium* (Cephaloziineae, Marchantiophyta). *Plant Systematics and Evolution* [J] 307(62): 1-16. [E] 2021: [10]. doi: 10.1007/s00606-021-01779-8

TYPE: *Konstantinovia pulchra* Bakalin & Fedosov

Evidence: morphology; ITS1, 5.8S rRNA gene, ITS2, trnLF-exon1, trnLF-intron, trnLFexon2, trnLF-trnF, trnF-exon, rps4 gene, trnG

Konstantinovia pulchra Bakalin & Fedosov [New Species]

BAKALIN Vadim A., FEDOSOV Vladimir E., FEDOROVA Alina V., MA Wen-zhang. *Obtusifoliaceae*, a New Family of Leafy Liverworts to Accommodate *Konstantinovia*, Newly Described from the Hengduan Mts. (South China) and *Obtusifolium* (Cephaloziineae, Marchantiophyta). *Plant Systematics and Evolution* [J] 307(62): 1-16. [E] 2021: [10]. doi: 10.1007/s00606-021-01779-8

TYPE: V. A. Bakalin & W. Z. Ma C-77-2-18 (holotype: VBGI; isotype: KUN, MW)

CHINA (Yunnan*)

Evidence: morphology; ITS1, 5.8S rRNA gene, ITS2, trnLF-exon1, trnLF-intron, trnLFexon2, trnLF-trnF, trnF-exon, rps4 gene, trnG

Obtusifoliaceae Bakalin & Fedosov [New Family]

[nom. inval.]

BAKALIN Vadim A., FEDOSOV Vladimir E., FEDOROVA Alina V., MA Wen-zhang. Obtusifoliaceae, a New Family of Leafy Liverworts to Accommodate Konstantinovia, Newly Described from the Hengduan Mts. (South China) and Obtusifolium (Cephaloziineae, Marchantiophyta). *Plant Systematics and Evolution* [J] 307(62): 1-16. [E] 2021: [9]. doi: 10.1007/s00606-021-01779-8

TYPE: *Obtusifolium* S.W. Arnell

Evidence: morphology; ITS1, 5.8S rRNA gene, ITS2, trnLF-exon1, trnLF-intron, trnLFexon2, trnLF-trnF, trnF-exon, rps4 gene, trnG

Porellaceae 光萼苔科

Porella campylophylla (Lehm. & Lindenb.) Trevis. subsp. *tosana* (Steph.) S. Hatt. 粗齿光萼苔羽枝亚种 [New Record]

JIA Yu, WU Jin-ping. *Bryophyte Diversity in Mt. Meihua National Nature Reserve, Fujian* [B]: 1-264. [C] 2021: [80].

CHINA (Fujian); **JAPAN**

Evidence: morphology

Radulaceae 扁萼苔科

Radula subacuminata L. N. Zhang & R. L. Zhu [New Species]

ZHANG Li-na, PROMMA Chatchaba, SHU Lei, WEI Yu-mei, WANG Jian, DO Truong Van, LU Thi Ngan, ZHU Rui-liang. *Radula subacuminata*, a New Epiphyllous Species of *Radula* (Marchantiophyta) from China and Vietnam. *The Bryologist* [J] 124(2): 257-270. [E] 2021: [263]. doi: 10.1639/0007-2745-124.2.257

TYPE: R. L. Zhu & al. 20131027-138C (holotype: HSNU-10002703)

CHINA (Fujian); **VIETNAM***

Evidence: morphology; trnG, trnL-F, rps4, atpB-rbcL

Scapaniaceae 合叶苔科

Scapania metahimalayana Vilnet & Bakalin [New Record]

POTEMKIN Alexey D., VILNET Anna A., BAKALIN Vadim A. A Case of Morphological Convergence in Sections *Stephania* and *Ciliatae* of the Liverwort Genus *Scapania* (Scapaniaceae, Marchantiophyta) and an Extension of the Range of *S. metahimalayana* to China. *Journal of Bryology* [J] 43(4): 339-346. [E] 2021: [2]. doi: 10.1080/03736687.2021.2010001

CHINA (Yunnan); **VIETNAM**

Evidence: morphology; ITS1-2, trnL-F, rbcL

Bryophyta 藓类植物门

Bryaceae 真藓科

Bryum glacierum Y. Y. Liu & Y. Huan Wu [New Species]

LIU Yong-ying, QUAN Yu-ping, WU Yu-huan. A New Moss Species from Northwestern China: *Bryum glacierum* (Bryaceae). *Phytotaxa* [J] 510(2): 148-154. [E] 2021: [148]. doi: 10.11646/phytotaxa.510.2.3

TYPE: Y. H. Wu 201608210086 (holotype: Herbarium of Jiaozuo Normal College; isotype HTC, PE); Y. H. Wu 20160822218 (paratype: HTC, Herbarium of Jiaozuo Normal College)

CHINA (Xinjiang*)

Evidence: morphology

Haplodontium altunense Xiao R. Wang & S. Mamtimin 阿尔金拟缺齿藓 [New Species]

WANG Xiao-rui, LI Min, SPENCE John R., ZHAO Jian-cheng, MAMTIMIN Sulayman. *Haplodontium altunense* (Bryaceae, Bryopsida), a New Moss Species from Northwest China. *PhytoKeys* [J] 183: 9-19. [E] 2021: [11]. doi: 10.3897/phytokeys.183.71642

TYPE: S. Mamtimin 16752 (holotype: HBNU; isotype: XJU)

CHINA (Xinjiang*)

Evidence: morphology; ITS

Ditrichaceae 牛毛藓科

Trichodon cylindricus (Hedw.) Schimp. var. *oblongus* (Lindl.) Podp. 短蒴毛齿藓 [New Record]

ZULMIRA Mamtimin, LIU Yong-ying, MEIHERIBANHAN Aizezi, MAMTIMIN Sulayman. *Trichodon cylindricus* var. *oblongus* (Lindl.) Podp. (Ditrichaceae, Musci) Reported New to China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(10): 1776-1780. [C] 2021: [1777]. doi: 10.7606/j.issn.1000-4025.2021.10.1776

CHINA (Xinjiang); **CANADA, UNITED STATES, NORWAY**

Evidence: morphology

Mniaceae 提灯藓科

Plagiomnium decursivum R. E. Wyatt [New Species]

WYATT Robert, HARRIS Eric S. J., ODRZYKOSKI Ireneusz J. *Plagiomnium decursivum* (Mniaceae), a New Moss Species from Japan and China. *The Bryologist* [J] 124(2): 151-161. [E] 2021: [159]. doi: 10.1639/0007-2745-124.2.151

TYPE: R. E. Wyatt 1673 (holotype: DUKE)

CHINA (Yunnan); **JAPAN***

Evidence: morphology

Plagiomnium jiuzhaigouense R. E. Wyatt [New Species]

WYATT Robert. *Plagiomnium jiuzhaigouense* (Mniaceae), a New Moss Species from Jiuzhaigou National Park, Sichuan Province, China. *The Bryologist* [J] 124(1): 27-32. [E] 2021: [31]. doi: 10.1639/0007-2745-124.1.027

TYPE: R. Wyatt 1799 (holotype: DUKE; isotype: NY)

CHINA (Sichuan*)

Evidence: morphology

Orthotrichaceae 木灵藓科

Lewinskya affinis (Brid.) F. Lara, Garilleti & Goffinet var. *bohémica* (Plášek & Sawicki) Plášek [New Record]

PLÁŠEK Vítězslav, KOMÍNKOVÁ Zuzana, OCHYRA Ryszard, FIALOVÁ LUCIE, GUO Shui-liang, SULAYMAN Mamtimin. A Synopsis of *Orthotrichum* s. lato (Bryophyta, Orthotrichaceae) in China, with Distribution Maps and a Key to Determination. *Plants (MDPI)* [J] 10(499): 1-36. [E] 2021: [21]. doi: 10.3390/plants10030499

CHINA (Xinjiang)

Evidence: morphology

Lewinskya brassii (E. B. Bartram) F. Lara, Garilleti & Goffinet [Excluded from China]

PLÁŠEK Vítězslav, KOMÍNKOVÁ Zuzana, OCHYRA Ryszard, FIALOVÁLUCIE, GUO Shui-liang, SULAYMAN Mamtimin. A Synopsis of Orthotrichum s. lato (Bryophyta, Orthotrichaceae) in China, with Distribution Maps and a Key to Determination. *Plants (MDPI)* [J] 10(499): 1-36. [E] 2021: [5]. doi: 10.3390/plants10030499

NEW GUINEA

Evidence: morphology

Lewinskya elegans (Schwägr. ex Hook. & Grev.) F. Lara, Garilleti & Goffinet [Excluded from China]

PLÁŠEK Vítězslav, KOMÍNKOVÁ Zuzana, OCHYRA Ryszard, FIALOVÁLUCIE, GUO Shui-liang, SULAYMAN Mamtimin. A Synopsis of Orthotrichum s. lato (Bryophyta, Orthotrichaceae) in China, with Distribution Maps and a Key to Determination. *Plants (MDPI)* [J] 10(499): 1-36. [E] 2021: [4]. doi: 10.3390/plants10030499

UNITED STATES

Evidence: morphology

Nyholmiella gymnostoma (Brid.) Holmen & E. Warncke [Excluded from China]

PLÁŠEK Vítězslav, KOMÍNKOVÁ Zuzana, OCHYRA Ryszard, FIALOVÁLUCIE, GUO Shui-liang, SULAYMAN Mamtimin. A Synopsis of Orthotrichum s. lato (Bryophyta, Orthotrichaceae) in China, with Distribution Maps and a Key to Determination. *Plants (MDPI)* [J] 10(499): 1-36. [E] 2021: [5]. doi: 10.3390/plants10030499

MONTENEGRO

Evidence: morphology

Orthotrichum hooglandii E. B. Bartram [Excluded from China]

PLÁŠEK Vítězslav, KOMÍNKOVÁ Zuzana, OCHYRA Ryszard, FIALOVÁLUCIE, GUO Shui-liang, SULAYMAN Mamtimin. A Synopsis of Orthotrichum s. lato (Bryophyta, Orthotrichaceae) in China, with Distribution Maps and a Key to Determination. *Plants (MDPI)* [J] 10(499): 1-36. [E] 2021: [5]. doi: 10.3390/plants10030499

NEW GUINEA

Evidence: morphology

Orthotrichum revolutum Müll. Hal. 卷叶木灵藓 [Rediscovery]

WANG Qing-hua, HE Qiang, JIA Yu. Orthotrichum revolutum (Orthotrichaceae, Bryophyta), an Endemic Species to China, Rediscovered after 123 Years. *Bulletin of Botanical Research* [J] 41(4): 481-487. [E] 2021: [482]. doi: 10.7525/j.issn.1673-5102.2021.04.001

TYPE: Giraldi 1509 (lectotype: FI-012918; isolectotype: H-2996026); Giraldi 1511 (syntype: FI-012919, H-2996026)

CHINA (Beijing, Shaanxi*)

Evidence: morphology

Orthotrichum schimperi Hammar [New Record]

PLÁŠEK Vítězslav, KOMÍNKOVÁ Zuzana, OCHYRA Ryszard, FIALOVÁLUCIE, GUO Shui-liang, SULAYMAN Mamtimin. A Synopsis of Orthotrichum s. lato (Bryophyta, Orthotrichaceae) in China, with Distribution Maps and a Key to Determination. *Plants (MDPI)* [J] 10(499): 1-36. [E] 2021: [21]. doi: 10.3390/plants10030499

CHINA (Xinjiang)

Evidence: morphology

Polytrichaceae 金发藓科

Delongia flavolimbata (S. He & Y. J. Yi) S. He & Y. J. Yi [New Combination]

YI Yan-jun, ZHANG Jie, XIAO Xiao-xuan, HE Si. Delongia flavolimbata (S. He & Y. J. Yi) S. He & Y. J. Yi, an Unusual Species with Elamellate Laminae from China, Newly Combined in Polytrichaceae Based on Molecular Data. *Journal of Bryology* [J] 43(4): 313-320. [E] 2021: [317]. doi: 10.1080/03736687.2021.2004358

TYPE: Ma & al. 13-4879 (holotype: KUN; isotype: CAS, E, MO); Shevock & al. 43028 (paratype: CAS, E, KUN, MO)

CHINA (Yunnan*)

Evidence: morphology; rps4, trnL-F

B: *Hyophila flavolimbata* S. He & Y. J. Yi

Lycopodiophyta 石松门

Isoetaceae 水韭科

Isoetes baodongii Y. F. Gu, Y. H. Yan & Yi J. Lu 保东水韭 [New Species]

LU Yi-jun, GU Yu-feng, YAN Yue-hong. Isoetes baodongii (Isoetaceae), a New Basic Diploid Quillwort from China. *Novon* [J] 29(1): 206-210. [E] 2021: [207]. doi: 10.3417/2021680

TYPE: Y. F. Gu Fern 08946 (holotype: PE; isotyp: CSH, NOCC)

CHINA (Zhejiang*)

Evidence: morphology; chromosome

Selaginellaceae 卷柏科

Selaginella iridescens X. C. Zhang & Ya R. Wang 彩虹卷柏 [New Species]

YANG Jie, ZHANG Meng-hua, WANG Ya-rong, YUAN Lang-xing, ZHANG Xian-chun. An Extraordinary Rosette and Resurrection New Spikemoss, *Selaginella iridescens* (Selaginellaceae) from Hainan Island, China. *Taxonomy (MDPI)*

[J] 1(4): 302-312. [E] 2021: [305]. doi: 10.3390/taxonomy1040024

TYPE: Y. R. Wang & L. X. Yuan wyr20200110 (holotype: PE); X. C. Zhang & E. F. Huang 11594 (paratype: PE)

CHINA (Hainan*)

IUCN: VU; **Evidence:** morphology; rbcL

Selaginella jiulongensis (H. S. Kung, Li Bing Zhang & X. S. Guo) M. H. Zhang & X. C. Zhang [New Combination]

Zhang Meng-hua, Wei Ran, Xiang Qiao-ping, Ebihara Atsushi, Zhang Xian-chun. Integrative Taxonomy of the *Selaginella helvetica* group Based on Morphological, Molecular and Ecological Data. *Taxon* [J] 70(6): 1163-1187. [E] 2021: [1179]. doi: 10.1002/tax.12565

TYPE: L. B. Zhang & X. S. Guo 2537 (holotype: CDBI; isotype: PE-00405731)

CHINA (Gansu, Hebei, Henan, Hubei, Qinghai, Shaanxi, Sichuan*, Xizang, Yunnan); **NEPAL**
Evidence: morphology; 26S rDNA, pgcC, rbcL, psbA, atpI, atpF, atpF-H
B: *Lycopodioides jiulongensis* H. S. Kung, Li Bing Zhang & X. S. Guo

Selaginella qingchengshanensis Li Bing Zhang & Xin M. Zhou
青城山卷柏 [New Species]

HE Meng, HE Zhao-rong, ZHANG Li-bing, ZHOU Xin-mao. *Selaginella qingchengshanensis* (sect. *Heterostachys*; Selaginellaceae), a New Species from Sichuan, China. *Phytotaxa* [J] 522(4): 285-293. [E] 2021: [286]. doi: 10.11646/phytotaxa.522.4.2

TYPE: Z. L. Liang & X. Pu 085 (holotype: PYU)

CHINA (Sichuan*)

IUCN: NT; **Evidence:** morphology; ITS2, rbcL

Selaginella shensiensis Christ [Typification]

Zhang Meng-hua, Wei Ran, Xiang Qiao-ping, Ebihara Atsushi, Zhang Xian-chun. Integrative Taxonomy of the

Selaginella helvetica group Based on Morphological, Molecular and Ecological Data. *Taxon* [J] 70(6): 1163-1187. [E] 2021: [1182]. doi: 10.1002/tax.12565

TYPE: G. Giraldo s.n. (lectotype: K-001067383)

CHINA (Beijing, Guizhou, Hebei, Henan, Hubei, Shaanxi*)

Evidence: morphology; 26S rDNA, pgcC, rbcL, psbA, atpI, atpF, atpF-H

Selaginella shensiensis Christ [New Synonyms]

Zhang Meng-hua, Wei Ran, Xiang Qiao-ping, Ebihara Atsushi, Zhang Xian-chun. Integrative Taxonomy of the *Selaginella helvetica* group Based on Morphological, Molecular and Ecological Data. *Taxon* [J] 70(6): 1163-1187. [E] 2021: [1182]. doi: 10.1002/tax.12565

TYPE: G. Giraldo s.n. (lectotype: K-001067383)

CHINA (Beijing, Guizhou, Hebei, Henan, Hubei, Shaanxi*)

Evidence: morphology; 26S rDNA, pgcC, rbcL, psbA, atpI, atpF, atpF-H

S: *Selaginella longistrobilina* P. S. Wang, X. Y. Wang & Li Bing Zhang (P. S. Wang 75606, PYU; isotype: CDBI, MO)

Pteridophyta 蕨类植物门

Cyatheaceae 桫欏科

Sphaeropteris guangxiensis Y. F. Gu & Y. H. Ya 广西白桫欏 [New Species]

GU Yu-feng, MORIGENGAOWA, JIANG Ri-hong, LIU Bao-dong, YAN Yue-hong. *Sphaeropteris guangxiensis* Y. F. Gu & Y. H. Yan (Cyatheaceae), a New Species of Tree Fern from Southern China. *Phytotaxa* [J] 518(1): 69-74. [E] 2021: [70]. doi: 10.11646/phytotaxa.518.1.8

TYPE: Morigengaowa & J. J. Luo CFH09001402 (holotype: CSH-0155370; isotype: PE); Morigengaowa & J. J. Luo CFH09001403 (paratype: CSH); Morigengaowa & J. J. Luo CFH09001404 (paratype: CSH); Morigengaowa & J. J. Luo CFH09001405 (paratype: CSH); Morigengaowa & J. J. Luo CFH09001406 (paratype: CSH)

CHINA (Guangxi*)

IUCN: EN; **Evidence:** morphology

Dipteridaceae 双扇蕨科

Dipteris shenzhenensis Y. H. Yan & Z. Y. Wei 深圳双扇蕨 [New Species]

WEI Zuo-ying, GU Yu-feng, XIA Zeng-qiang, CHEN Li-jun, WANG Ting, ZHANG Shou-zhou, ZHAO Guo-hua, CHEN Jian-bing, CAO Jian-guo, YAN Yue-hong. *Dipteris shenzhenensis*, a New Endangered Species of Dipteridaceae from Shenzhen, Southern China. *PhytoKeys* [J] 186: 111-120. [E] 2021: [115]. doi: 10.3897/phytokeys.186.73739

TYPE: Y. H. Yan & al. YYH15638 (holotype: SZG; isotype: NOCC)

CHINA (Guangdong*)

IUCN: CR; **Evidence:** morphology; rbcL, atpA, rps4, rbcL-accD, trnG-trnR

Dryopteridaceae 鳞毛蕨科

Arachniodes libingii Liang Zhang, N. T. Lu & T. T. Thanh [New Species]

LU Ngan Thi, NGUYEN Linh Phuong, LE Chi Toan, NGUYEN Thanh Trung, ZHANG Liang. *Arachniodes libingii* sp. nov. and *A. vietnamensis* sp. nov. (Dryopteridaceae), Two New Ferns from Southern China and Central Vietnam. *Phytotaxa* [J] 522(3): 256-262. [E] 2021: [257]. doi: 10.11646/phytotaxa.522.3.9

TYPE: Liang Zhang 1621 (holotype: CDBI; isotype: CDBI)

CHINA (Guangdong, Hainan*)

Evidence: morphology

Dryopteris lijianxiui Xiao J. Li [New Species]

Missed as: *Dryopteris lijianxiui*

LI Xiao-juan, WANG Xiao, LIU Wei. *Dryopteris lijianxiui* (Dryopteridaceae), a New Species from China. *Bangladesh Journal of Botany* [J] 50(3): 747-753. [E] 2021: [747]. doi: 10.3329/bjb.v50i0.56425

TYPE: J. X. Li 822-1 (holotype: PE; isotype: SDCM)

CHINA (Shandong*)

Evidence: morphology

Dryopteris wulingshanensis J. P. Shu, Y. H. Yan & R. J. Wang
武陵山鳞毛蕨 [New Species]

SHU Jiang-ping, LIU Zi-yue, GU Zhi-rong, CHEN Li-jun, WEI Hong-jin, ZHOU Xi-le, YAN Yue-hong, WANG Rui-jiang. *Dryopteris wulingshanensis* (Dryopteridaceae), a New Species from Hunan, China. *PhytoKeys* [J] 185: 17-26. [E] 2021: [21]. doi: 10.3897/phytokeys.185.72019

TYPE: Y. H. Yan & Z. R. Gu YYH24468 (holotype: IBSC; isotype: NOCC, CSH, PE); X. L. Zhou & al. ZXL6320-1 (paratype: CSH); X. L. Zhou & al. ZXL6320-3 (paratype: CSH); H. J. Wei & al. JSL3926 (paratype: CSH); H. J. Wei & al. JSL3935 (paratype: CSH)

CHINA (Hunan*)

IUCN: EN; **Evidence:** morphology; rbcL

Polystichum dongchuanense Z. L. Liang, Z. R. He & Li Bing Zhang 东川耳蕨 [New Species]

LIANG Zhen-Long, HE Zhao-Rong, ZHANG Li-Bing. *Polystichum dongchuanense* and *P. menglaense* (subg. *Haplopolystichum*; *Dryopteridaceae*), Two New Ferns from Yunnan, China. *Phytotaxa* [J] 479(1): 114-120. [E] 2021: [114]. doi: 10.11646/phytotaxa.479.1.9

TYPE: Z. L. Liang, L. P. Kong, H. C. Wang & Z. R. He LZL1293 (holotype: PYU; isotype: CDBI)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Polystichum menglaense Z. L. Liang & Li Bing Zhang 勐腊耳蕨 [New Species]

LIANG Zhen-Long, HE Zhao-Rong, ZHANG Li-Bing. *Polystichum dongchuanense* and *P. menglaense* (subg. *Haplopolystichum*; *Dryopteridaceae*), Two New Ferns from Yunnan, China. *Phytotaxa* [J] 479(1): 114-120. [E] 2021: [117]. doi: 10.11646/phytotaxa.479.1.9

TYPE: Z. L. Liang & D. Wang LZL1294 (holotype: PYU; isotype: PYU)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Hypodematiaceae 肿足蕨科

Hypodematium brevipilosum Li Bing Zhang, X. P. Fan & X. F. Gao [New Species]

FAN Xue-ping, ZHANG Liang, GAO Xin-fen, ZHANG Li-bing. A Revision of the *Hypodematium glabrum* Complex (Pteridophyta: Hypodematiaceae) with the Description of Four New Species. *Phytotaxa* [J] 487(2): 114-124. [E] 2021: [115]. doi: 10.11646/phytotaxa.487.2.2

TYPE: X. P. Fan FXP43 (holotype: CDBI)

CHINA (Yunnan*)

Evidence: morphology

Hypodematium eglandulosum X. P. Fan, Liang Zhang & Li Bing Zhang [New Species]

FAN Xue-ping, LU Ngan Thi, ZHANG Liang, ZHANG Li-bing. *Hypodematium chrysoplepis* comb. nov. from Africa and *H. eglandulosum* sp. nov. from Asia (Hypodematiaceae). *Phytotaxa* [J] 524(2): 99-106. [E] 2021: [100]. doi: 10.11646/phytotaxa.524.2.4

TYPE: Li Bing Zhang, Y. F. Duan & M. Kropf 9661 (holotype: CDBI)

CHINA (Guizhou*)

Evidence: morphology

Hypodematium parvisorum Li Bing Zhang, X. P. Fan & X. F. Gao [New Species]

FAN Xue-ping, ZHANG Liang, GAO Xin-fen, ZHANG Li-bing. A Revision of the *Hypodematium glabrum* Complex (Pteridophyta: Hypodematiaceae) with the Description of Four New Species. *Phytotaxa* [J] 487(2): 114-124. [E] 2021: [117]. doi: 10.11646/phytotaxa.487.2.2

TYPE: X. P. Fan FXP62 (holotype: CDBI)

CHINA (Yunnan*)

Evidence: morphology

Hypodematium shingii Li Bing Zhang, X. P. Fan & X. F. Gao [New Species]

FAN Xue-ping, ZHANG Liang, KNAPP Ralf, HE Hai, GAO Xin-fen, ZHANG Li-bing. *Hypodematium shingii* sp. nov. (Hypodematiaceae; Polypodiales): Replacing the Misapplied “*H. crenatum*”, a Widespread Fern from Asia. *Phytotaxa* [J] 482(1): 87-92. [E] 2021: [88]. doi: 10.11646/phytotaxa.482.1.10

TYPE: X. P. Fan FXP56 (holotype: CDBI); H. He & Y. Q. Yang H1099 (paratype: CTC); Li Bing Zhang & H. He 6090 (paratype: CDBI, CTC); Li Bing Zhang, Y. F. Duan & M. Kropf 9572 (paratype: CDBI); K. H. Shing & Q. Xia 5021 (paratype: PE); Qinghai-Tibet Exped. 11209 (paratype: PE); Liang Zhang 1410 (paratype: CDBI); R. Knapp 4166 (paratype: P); Liang Zhang 1819 (paratype: KUN); X. P. Fan FXP55 (paratype: CDBI); E. Hennipman E3196 (paratype: L); Li Bing Zhang, R. Pollawtn, Liang Zhang, P. Limpanasittichai 10572 (paratype: BCU, CDBI, KUN, MO, PYU, XTBG); T. Boonkerd & al. 2011-738 (paratype: BCU)

CHINA (Chongqing, Guizhou, Sichuan, Taiwan, Yunnan*); **THAILAND**

Evidence: morphology

Hypodematium subglabrum Li Bing Zhang, X. P. Fan & X. F. Gao [New Species]

FAN Xue-ping, ZHANG Liang, GAO Xin-fen, ZHANG Li-bing. A Revision of the *Hypodematium glabrum* Complex (Pteridophyta: Hypodematiaceae) with the Description of Four New Species. *Phytotaxa* [J] 487(2): 114-124. [E] 2021: [120]. doi: 10.11646/phytotaxa.487.2.2

TYPE: X. P. Fan FXP58 (holotype: CDBI)

CHINA (Yunnan*)

Evidence: morphology

Hypodematium truncatum Li Bing Zhang, X. P. Fan & X. F. Gao [New Species]

FAN Xue-ping, ZHANG Liang, GAO Xin-fen, ZHANG Li-bing. A Revision of the *Hypodematium glabrum* Complex (Pteridophyta: Hypodematiaceae) with the Description of Four New Species. *Phytotaxa* [J] 487(2): 114-124. [E] 2021: [123]. doi: 10.11646/phytotaxa.487.2.2

TYPE: X. P. Fan FXP42 (holotype: CDBI)

CHINA (Yunnan*)

Evidence: morphology

Lomariopsidaceae 藤蕨科

Lomariopsis longini L. Y. Kuo & Yi H. Wu [New Species]

WU Yi-hsuan, SUN Chih-yun, EBIHARA Atsushi, LU Ngan Thi, ROUHAN Germinal, KUO Li-yaung. Two New Species in the Genus *Lomariopsis* (Lomariopsidaceae) from East Asia. *PhytoKeys* [J] 187: 161-176. [E] 2021: [164]. doi: 10.3897/phytokeys.187.77035

TYPE: P. K. Loc 5095 (holotype: P-00888363; isotype: MO); L. B. Zhang, L. Zhang & N. T. Lu 7185 (paratype: CDBI, MO, VNMN); S. K. Wu & L. K. Phan WP897 (paratype: KUN); S. K. Wu & L. K. Phan WP1124 (paratype: KUN); Y. H. Chang 20091104-005 (paratype: TAIF); C. W. Chen Wade 983 (paratype: TAIF); L. Y. Kuo 1862 (paratype: TAIF, VNMN); Q. Wei WQ243 (paratype: KUN); S. Y. Dong 3597 (paratype: IBSC); W. M. Ju & H. C. Yan 21930 (paratype: IBK)

CHINA (Yunnan); **VIETNAM***

Evidence: morphology; trnL-L-F, rbcL, rps4-trnS

Lomariopsis moorei Yi H. Wu & L. Y. Kuo [New Species]

WU Yi-hsuan, SUN Chih-yun, EBIHARA Atsushi, LU Ngan Thi, ROUHAN Germinal, KUO Li-yaung. Two New Species in the Fern Genus *Lomariopsis* (Lomariopsidaceae) from East Asia. *PhytoKeys* [J] 187: 161-176. [E] 2021: [167]. doi: 10.3897/phytokeys.187.77035

TYPE: Y. H. Wu YX052 (holotype: TAIF; isotype: TAIF); Y. H. Wu YX053 (paratype: TAIF); Y. S. Chao 1211 (paratype: TAIF); W. H. Wu 1062 (paratype: TAIF); G. M. Zhang & D. Li 117 (paratype: PE); S. Y. Dong 1045 (paratype: PE)

CHINA (Hainan, Taiwan*)

Evidence: morphology; trnL-L-F, rbcL, rps4-trnS

Marattiaceae 合囊蕨科

Angiopteris sugongii Gui L. Zhang, J. Y. Xiang & Ting Wang tris 素功莲座蕨 [New Species]

WANG Ting, ZHANG Gui-liang, YAN Yue-hong, SUN Da-kuan, SHU Jiang-ping, DUAN Jie-qi, ZHAO Guo-hua, ZHANG Gui-sheng, XIANG Jian-ying, WANG Kang-ling. *Angiopteris sugongii* (Marattiaceae), a New Diploid Species with Transitional Morphology between *Angiopteris* (sen. str.) and *Archangiopteris*. *Phytotaxa* [J] 516(3): 275-282. [E] 2021: [276]. doi: 10.11646/phytotaxa.516.3.6

TYPE: G. L. Zhang 2013101 (holotype: KUN-1511679; isotype: SWFC-0072410, SWFC-0072411, KUN-1511680)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology; chromosome

Polypodiaceae 水龙骨科

Selliguea wusugongii Liang Zhang, X. P. Fan & Li Bing Zhang [New Species]

FAN Xue-Ping, ZHANG Lin, ZHANG Li-Bing, ZHANG Liang. *Selliguea wusugongii* (Polypodiaceae), a New Fern Species from Southeastern Xizang, China Based on Morphological and Molecular Evidence. *Phytotaxa* [J] 480(1): 57-68. [E] 2021: [59]. doi: 10.11646/phytotaxa.480.1.5

TYPE: L. Zhang 2955 (holotype: KUN-1497728; isotype: KUN, CDBI)

CHINA (Xizang*)

IUCN: CR; **Evidence:** morphology; rbcL, rps4, rps4-trnS, trnL, trnL-F

Pteridaceae 凤尾蕨科

Cheilanthes qiaojiaensis Z. R. He & W. M. Chu [New Species]

CHU Wei-ming, ZHAO Jing, TAO Ya-di, ZHOU Xin-mao, HE Zhao-rong. *Cheilanthes qiaojiaensis* (Cheilantheoideae, Pteridaceae), a New Fern Species from Yunnan, China. *Phytotaxa* [J] 514(3): 238-246. [E] 2021: [239]. doi: 10.11646/phytotaxa.514.3.4

TYPE: Z. R. He 31301 (holotype: PYU; isotype: PYU); W. M. Chu & H. Z. Yan 24562 (paratype: PYU); Z. R. He & X. M. Zhou 1080 (paratype: PYU); X. M. Zhou, J. Zhao & J. J. Yang PYU-S-1063 (paratype: PYU)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology; rbcL, atpB, rps4-trnS, atpA, trnL-F, trnG-R, matK

Cheilanthes viridis (Forssk.) Sw. 绿碎米蕨 [New Record]

CHANG Zhi-xiang, HSU Tian-chuan, KUO Li-yaung. Four New Records for the Fern Flora of Taiwan. *Taiwan Journal of Biodiversity* [J] 23(4): 10-22. [C] 2021: [12].

TYPE: Forsskål s.n. (holotype: ?)

CHINA (Taiwan); **YEMEN***

IUCN: NA; **Evidence:** morphology

Haplopteris centrochinensis (Ching ex J. F. Cheng) Y. H. Yan, Z. Y. Wei & X. C. Zhang [New Combination]

WEI Zuo-ying, XIA Zeng-qiang, ZHANG Xian-chun, CAO Jian-cuo, YAN Yue-hong. Finding Missing Diversity from Synonyms of *Haplopteris* (Pteridaceae). *PhytoKeys* [J] 178: 81-94. [E] 2021: [90]. doi: 10.3897/phytokeys.178.67622

TYPE: H. J. Li 8394 (holotype: PE; isotype: IBSC, NAS)

CHINA (Guangxi, Guizhou, Hubei*, Hunan, Jiangxi, Zhejiang)

Evidence: morphology; rbcL, atpA, matK, ndhF, trnL-trnF

B: *Vittaria centrochinensis* Ching ex J. F. Cheng

Haplopteris centrochinensis (Ching ex J. F. Cheng) Y. H. Yan, Z. Y. Wei & X. C. Zhang [Correction]

WEI Zuo-ying, XIA Zeng-qiang, ZHANG Xian-chun, CAO Jian-cuo, YAN Yue-hong. Finding Missing Diversity from Synonyms of *Haplopteris* (Pteridaceae). *PhytoKeys* [J] 178: 81-94. [E] 2021: [90]. doi: 10.3897/phytokeys.178.67622

TYPE: H. J. Li 8394 (holotype: PE; isotype: IBSC, NAS)

CHINA (Guangxi, Guizhou, Hubei*, Hunan, Jiangxi, Zhejiang)

Evidence: morphology; rbcL, atpA, matK, ndhF, trnL-trnF

A: *Vittaria taeniophylla* sensu F. Zhang, non Copel.: Fl. Zhejiang 1: 111. 1993. p.p.; *Vittaria fudzinoi* sensu X. C. Zhang, non Makino: Fl. Rep. Poup. Sin. 3(2): 20.1999. p.p.; *Haplopteris fudzinoi* sensu X. C. Zhang & Gilbert, non (Makino) E. H. Crane: Fl. China 2(3): 254. 2013. p.p.

Pteris austrotaiwanensis Y. S. Chao 南台湾凤尾蕨 [New Species]

CHAO Yi-shan, CHIOU Wen-liang, EBIHARA Atsushi, HSU Tian-chuan, CHANG Yi-han, LIN Chien-yu. Taxonomic and Nomenclatural Novelties in the *Pteris fauriei* Group (Pteridaceae). *Taiwania* [J] 66(3): 307-316. [E] 2021: [313]. doi: 10.6165/tai.2021.66.307

TYPE: Y. S. Chao 3255 (holotype: TAIF-535166; isotype: TAIF-535167)

CHINA (Taiwan*)

Evidence: morphology; rbcL, matK

Pteris fauriei Hieron. var. *chinensis* Ching & S. H. Wu 百越凤尾蕨 [Typification]

CHAO Yi-shan, CHIOU Wen-liang, EBIHARA Atsushi, HSU Tian-chuan, CHANG Yi-han, LIN Chien-yu. Taxonomic and Nomenclatural Novelties in the *Pteris fauriei* Group (Pteridaceae). *Taiwania* [J] 66(3): 307-316. [E] 2021: [313]. doi: 10.6165/tai.2021.66.307

TYPE: C. Wang 31659 (lectotype: PE-00049447; isolectotype: PE-00049448)

CHINA (Guangdong*)

Evidence: morphology; rbcL, matK

Pteris latipinna Y. S. Chao & W. L. Chiou 宽羽凤尾蕨 [New Synonyms]

CHAO Yi-shan, CHIOU Wen-liang, EBIHARA Atsushi, HSU Tian-chuan, CHANG Yi-han, LIN Chien-yu. Taxonomic and Nomenclatural Novelties in the *Pteris fauriei* Group (Pteridaceae). *Taiwania* [J] 66(3): 307-316. [E] 2021: [313]. doi: 10.6165/tai.2021.66.307

TYPE: Y. S. Chao 2092 (holotype: TAIF-513634; isotype: TAIF-513635, TAIF-513636, TNS)

CHINA (Taiwan*); **VIETNAM**

Evidence: morphology; rbcL, matK

S: *Pteris fauriei* Hieron. var. *chinensis* Ching & S. H. Wu (C. Wang 31659, lectotype: PE-00049447; isolectotype: PE-00049448)

Pteris minor (Hieron.) Y. S. Chao 海岸凤尾蕨 [New Combination]

CHAO Yi-shan, CHIOU Wen-liang, EBIHARA Atsushi, HSU Tian-chuan, CHANG Yi-han, LIN Chien-yu. Taxonomic and Nomenclatural Novelties in the *Pteris fauriei* Group (Pteridaceae). *Taiwania* [J] 66(3): 307-316. [E] 2021: [314]. doi: 10.6165/tai.2021.66.307

TYPE: U. Faurie 685 (lectotype: B-20 0128121; isolectotype: P-00608401, P-00608402, P-00608403, TI)

CHINA (Taiwan*); **JAPAN**

Evidence: morphology; rbcL, matK

B: *Pteris fauriei* Hieron. var. *minor* Hieron.

Pteris pseudowulaiensis Y. S. Chao 拟乌来凤尾蕨 [New Species]

CHAO Yi-shan, CHIOU Wen-liang, EBIHARA Atsushi, HSU Tian-chuan, CHANG Yi-han, LIN Chien-yu. Taxonomic and Nomenclatural Novelties in the *Pteris fauriei* Group (Pteridaceae). *Taiwania* [J] 66(3): 307-316. [E] 2021: [314]. doi: 10.6165/tai.2021.66.307

TYPE: T. C. Hsu 8437 (holotype: TAIF-497137; isotype: TAIF-497138)

CHINA (Guangdong, Guangxi, Guizhou, Fujian, Taiwan*)

IUCN: LC; **Evidence:** morphology; rbcL, matK

Thelypteridaceae 金星蕨科

Abacopteris gracilis (Ching ex Y. X. Lin) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Yunnan)

Evidence: morphology

B: *Pronephrium gracile* Ching ex Y. X. Lin

Abacopteris hekouensis (Ching ex Y. X. Lin) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Yunnan)

Evidence: morphology

B: *Pronephrium hekouense* Ching ex Y. X. Lin

Abacopteris hirtisora (C. Chr.) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Guangxi, Yunnan)

Evidence: morphology

B: *Dryopteris hirtisora* C. Chr.

Abacopteris macrophylla (Ching ex Y. X. Lin) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Guangxi, Yunnan)

Evidence: morphology

B: *Pronephrium macrophyllum* Ching ex Y. X. Lin

Abacopteris nudata (Roxb.) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Guizhou, Xizang, Yunnan)

Evidence: morphology

B: *Polypodium nudatum* Roxb.

Abacopteris setosa (Y. X. Lin) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Yunnan)

Evidence: morphology

B: *Pronephrium setosum* Y. X. Lin

Abacopteris yunguiensis (Ching ex Y. X. Lin) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [23].

CHINA (Guizhou, Yunnan)

Evidence: morphology

B: *Pronephrium yunguiensis* Ching ex Y. X. Lin

Amauropelta cystopteroides (D. C. Eaton) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [28].

CHINA (Fujian, Taiwan)

Evidence: morphology

B: *Athyrium cystopteroides* D. C. Eaton

Amauropelta graminoides (Christ) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [28].

CHINA (Taiwan)

Evidence: morphology

B: *Aspidium graminoides* Christ

Amauropelta serrulata (Ching) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [28].

CHINA (Sichuan)

Evidence: morphology

B: *Thelypteris serrulata* Ching

Christella jinhongensis (Ching) A. R. Sm. & S. E. Fawc. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [35].

CHINA (Yunnan)

Evidence: morphology

B: *Cyclosorus jinhongensis* Ching

Christella nanxiensis (Ching) A. R. Sm. & S. E. Fawc. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [35].

CHINA (Yunnan)

Evidence: morphology

B: *Cyclosorus nanxiensis* Ching

Christella shimenensis (K. H. Shing & C. M. Zhang) A. R. Sm. & S. E. Fawc. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [35].

CHINA (Hunan)

Evidence: morphology

B: *Cyclosorus shimenensis* K. H. Shing & C. M. Zhang

Christella subacuta (Ching) A. R. Sm. & S. E. Fawc. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [35].

CHINA (Fujian)

Evidence: morphology

B: *Cyclosorus subacutus* Ching

Christella wulingshanensis (C. M. Zhang) A. R. Sm. & S. E. Fawc. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [35].

CHINA (Hunan)

Evidence: morphology

B: *Thelypteris wulingshanensis* (C. M. Zhang) Christenh.

Coryphopteris caudata (Ching ex K. H. Shing) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [38].

CHINA (Yunnan)

Evidence: morphology

B: *Parathelypteris caudata* Ching ex K. H. Shing

Coryphopteris chinensis (Ching) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [38].

CHINA (Anhui)

Evidence: morphology

B: *Thelypteris chinensis* Ching

Coryphopteris chingii (K. H. Shing & J. F. Cheng) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [38].

CHINA (Fujian, Jiangxi)

Evidence: morphology

B: *Parathelypteris chingii* K. H. Shing & J. F. Cheng

Coryphopteris indochinensis (Christ) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [38].

CHINA (Yunnan); VIETNAM

Evidence: morphology

B: *Dryopteris indochinensis* Christ

Coryphopteris nigrescens (Ching ex K. H. Shing) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [38].

CHINA (Yunnan)

Evidence: morphology

B: *Parathelypteris nigrescens* Ching ex K. H. Shing

Coryphopteris nipponica (Franch. & Sav.) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [38].

CHINA (Fujian, Gansu, Guangxi, Guizhou, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Shaanxi, Shandong, Sichuan, Yunnan, Zhejiang); JAPAN, NEPAL

Evidence: morphology

B: *Aspidium nipponicum* Franch. & Sav.

Coryphopteris pauciloba (Ching ex K. H. Shing) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [39].

CHINA (Fujian)

Evidence: morphology

B: *Parathelypteris pauciloba* Ching ex K. H. Shing

Coryphopteris trichochlamys (Ching ex K. H. Shing) S. E. Fawc. & A. R. Sm. [New Combination]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [39].

CHINA (Guangdong)

Evidence: morphology

B: *Parathelypteris trichochlamys* Ching ex K. H. Shing

Cyclosorus guangxiense L. Z. Tang & J. C. An 广西毛蕨 [New Species]

TANG Zhen-lang, TANG Li-ming, HE Ying-hui, AN Jia-cheng. *Cyclosorus guangxiense*, a New Species of Thelypteridaceae from Guangxi, China. *Guangxi Forestry*

Science [J] 50(1): 107-110. [C] 2021: [107]. doi: 10.19692/j.cnki.gfs.2021.01.019

TYPE: R. H. Jiang JRH10404 (holotype: IBK)

CHINA (Guangxi*)

IUCN: LC; **Evidence:** morphology

Grypothrix cuspidata (Blume) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [47].

CHINA (Taiwan); JAPAN, MALAYSIA

Evidence: morphology

B: *Meniscium cuspidatum* Blume

Grypothrix longipetiolata (K. Iwats.) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [47].

CHINA (Taiwan)

Evidence: morphology

B: *Abacopteris longipetiolata* K. Iwats.

Grypothrix megacuspis (Baker) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [47].

CHINA (Guangdong, Guangxi, Jiangxi, Taiwan, Yunnan)

Evidence: morphology

B: *Polypodium megacuspis* Baker

Grypothrix simplex (Hook.) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [48].

CHINA (Fujian, Guangdong, Hainan, Taiwan, Yunnan)

Evidence: morphology

B: *Meniscium simplex* Hook.

Grypothrix triphylla (Sw.) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [48].

CHINA (Fujian, Guangdong, Guangxi, Taiwan, Yunnan)

Evidence: morphology

B: *Meniscium triphyllum* Sw.

Menisciopsis (Holtum) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [52].

TYPE: *Dryopteris lakhimpurens* Rosenst.

Evidence: morphology

B: *Pronephrium* sect. *Menisciopsis* Holtum

Menisciopsis penangiana (Hook.) S. E. Fawc. & A. R. Sm. [**New Combination**]

FAWCETT Susan, SMITH Alan R. A Generic Classification of the Thelypteridaceae. *SIDA, Botanical Miscellany Series* [J] 59: 1-112. [E] 2021: [53].

CHINA (Guangdong, Guangxi, Guizhou, Henan, Hubei, Hunan, Jiangxi, Sichuan, Zhejiang)

Evidence: morphology

B: *Polypodium penangianum* Hook.

Phegopteris taiwaniana T. Fujiw., Ogiso & Seriz. [**New Species**]

FUJIWARA Tao, OGISO Junki, ISHII Sousuke, TOGO Kei, NAKATO Narumi, SERIZAWA Shunsuke, CHAO Yi-shan, IM Hyoun-tak, EBIHARA Atsushi, WATANO Yasuyuki. Species Delimitation in the *Phegopteris decursivopinnata* Polyploid Species Complex (Thelypteridaceae). *Acta Phytotaxonomica & Geobotanica* [J] 72(3): 205-226. [E] 2021: [221]. doi: 10.18942/apg.202102

TYPE: Y. S. Chao 2822 (holotype: TAIF; isotype: TNS)

CHINA (Taiwan*); JAPAN

Evidence: morphology; rbcL, PgiC; Chromosome

Gymnospermae 裸子植物门

Cupressaceae 柏科

Chamaecyparis hodginsii (Dunn) Rushforth [**Typification**]

YANG Zhi, YANG Yong, RUSHFORTH Keith. Lectotypification of *Chamaecyparis hodginsii* of the Cupressaceae. *PhytoKeys* [J] 185: 117-122. [E] 2021: [120]. doi: 10.3897/phytokeys.185.75796

TYPE: A.E.N. Hodgins 3505 (lectotype: K-000088294 isotype: IBSC-0016081, A-00022477)

CHINA (Chongqing, Fujian*, Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Sichuan, Yunnan, Zhejiang); LAOS, VIETNAM

Evidence: morphology

Cupressus rushforthii Maerki & J. Hoch [**New Species**]

MAERKI D., HOCH J. *Cupressus rushforthii*, a New Cypress Species in Xizang, China, with an introduction on the Chinese

Cypresses and a Survey of *C. austrotibetica*. *Bulletin of the Cupressus Conservation Project* [J] 10(2): 55-89. [E] 2021: [57].

TYPE: T. Baxter s.n. (holotype: LIV-2005152873)

CHINA (Xizang*)

Evidence: morphology

Cycadaceae 苏铁科

Cycas szechuanensis W. C. Cheng & L. K. Fu [**New Synonyms**]

FENG Xiu-yan, WANG Xin-hui, CHIANG Yu-chung, JIAN Shu-guang, GONG Xun. Species Delimitation with Distinct Methods Based on Molecular Data to Elucidate Species Boundaries in the *Cycas taiwaniana* Complex (Cycadaceae). *Taxon* [J] 70(3): 477-491. [E] 2021: [489]. doi: 10.1002/tax.12457

TYPE: J. H. Xiong & al. 33221 (holotype: PE-00000071)

CHINA (Fujian, Guangdong, Sichuan [clut.]*)

Evidence: morphology; atpB-rbcL, psbA-trnH, psbM-trnD, trnS-trnG, AC5, PHYP, PPRC, AAT

S: *Cycas fairylakea* D. Yue Wang (D. Yue Wang & H. Peng 2978, holotype: SZG)

Cycas taiwaniana Carruth. [New Synonyms]

FENG Xiu-yan, WANG Xin-hui, CHIANG Yu-chung, JIAN Shu-guang, GONG Xun. Species Delimitation with Distinct Methods Based on Molecular Data to Elucidate Species Boundaries in the *Cycas taiwaniana* Complex (Cycadaceae). *Taxon* [J] 70(3): 477-491. [E] 2021: [487]. doi: 10.1002/tax.12457

TYPE: Swinhoe s.n. (holotype: BM-000630452)

CHINA (Fujian*, Hainan)

Evidence: morphology; atpB-rbcL, psbA-trnH, psbM-trnD, trnS-trnG, AC5, PHYP, PPRC, AAT

S: *Cycas hainanensis* C. J. Chen (Zhongyi 4706, holotype: PE); *Cycas changjiangensis* N. Liu (N. Liu 97002, holotype: IBSC); *Cycas lingshuigensis* G. A. Fu (G.A. Fu 10809, holotype: HFB)

Ephedraceae 麻黄科

Ephedra chengiae Y. Yang & D. K. Ferguson 诚氏麻黄 [New Species]

YANG Yong, FERGUSON David K. *Ephedra chengiae* (Ephedraceae), a New Species from Xizang of China. *Taiwania* [J] 66(1): 57-60. [E] 2021: [57]. doi: 10.6165/tai.2021.66.57

TYPE: PE Xizang Exped. 3700 (holotype: PE-02345113; isotype: PE-02345114, PE-02345115)

CHINA (Xizang*)

IUCN: DD; **Evidence:** morphology

Ephedra chengiae Y. Yang & D. K. Ferguson var. *spinosa* Y. Yang & D. K. Ferguson 刺枝麻黄 [New Variety]

YANG Yong, FERGUSON David K. *Ephedra chengiae* (Ephedraceae), a New Species from Xizang of China. *Taiwania* [J] 66(1): 57-60. [E] 2021: [59]. doi: 10.6165/tai.2021.66.57

TYPE: PE Xizang Exped. 6702 (holotype: PE-02333692; isotype: PE-02345119, PE-02345120)

CHINA (Xizang*)

IUCN: DD; **Evidence:** morphology

Pinaceae 松科

Tsuga longibracteata W. C. Cheng [Typification]

YANG Yong, RUSHFORTH Keith. Lectotypification of *Tsuga longibracteata* W. C. Cheng (Pinaceae). *PhytoKeys* [J] 172: 93-96. [E] 2021: [94]. doi: 10.3897/phytokeys.172.62450

TYPE: Y. Tsiang 7712 (lectotype: PE-00003223; isolectotype: A-00052508, A-00052510, E-00215871, IBSC-0012857, K-000288277, NAS-00070063, NAS-00070064, NY-00001279, PE-00003225, PE-00003224, S-C-4796)

CHINA (Guizhou*)

Evidence: morphology

Angiospermae 被子植物门

Acanthaceae 爵床科

Strobilanthes tubiflos (C. B. Clarke) J. R. I. Wood [Rediscovery]
WOOD John R. I., BORAH Dipankar, TARAM Momang. The Rediscovery of *Strobilanthes tubiflos* (Acanthaceae) in North East India. *Kew Bulletin* [J] 76(2): 333-338. [E] 2021: [333]. doi: 10.1007/S12225-021-09969-W

TYPE: Griffith 6095 (lectotype: K-000883127)

CHINA (Xizang*)

IUCN: VU; **Evidence:** morphology

Adoxaceae 五福花科

Viburnum chunii P. S. Hsu f. *album* G. Y. Li & H. L. Lin 白花金腺荚蒾 [New Form]

LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [344].

TYPE: H. L. Lin LHL2014032 (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Amaranthaceae 苋科

Atriplex pallida (Moq.) Sukhor. 灰滨藜 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1266]. doi: 10.17520/biods.2021181

CHINA (Xizang); INDIA

Evidence: morphology

Blitum litwinowii (Paulsen) S. Fuentes, Uotila & Borsch 类球花藜 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1266]. doi: 10.17520/biods.2021181

CHINA (Xizang); INDIA

Evidence: morphology

Chenopodium atripliciforme Murr 滨藜状藜 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1267]. doi: 10.17520/biods.2021181

CHINA (Xizang); INDIA

Evidence: morphology

Amaryllidaceae 石蒜科

Allium carolinianum Redouté [Typification]

SHARMA Damini, DWIVEDI Mayank D., UPADHYAY Kusum, PANDEY Arun K. Typification of *Allium carolinianum* (Amaryllidaceae). *Kew Bulletin* [J] 76(3): 557-563. [E] 2021: [560]. doi: 10.1007/S12225-021-09969-W

TYPE: Illustration by Redouté in Liliac. 2: 101 t.4. 1804 (lectotype: [Fig.])

CHINA (Xinjiang, Xizang); AFGHANISTAN, INDIA, KAZAKHSTAN, KYRGYZSTAN, NEPAL, PAKISTAN, TAJIKISTAN, UZBEKISTAN

Evidence: morphology

Allium rhabdotum Stearn 黑脉葱 [New Record]

YANG Yu-chang, MA Xin-tang, ZHENG Hai-lei, ZHANG Xie-yong, YANG Fu-sheng, CHEN Zhi-duan. The Emended Type Locality and Supplementary Information of *Allium rhabdotum* Stearn (Amaryllidaceae). *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(5): 894-898. [C] 2021: [895]. doi: 10.7606/j.issn.1000-4025.2021.05.0894

TYPE: F. Ludlow, G. Sherriff & J. H. Hicks 21442 (holotype: BM-000958335; isotype: E-00393344, E-00393345)

CHINA (Xizang*); **BHUTAN**

IUCN: LC; **Evidence:** morphology

Allium yingshanense D. Q. Huang, A. G. Zhen & X. X. Zhu 崖韭 [New Species]

HUANG De-qing, ZHEN Ai-guo, ZHU Xin-xin. *Allium yingshanense*, a New Species from the Dabie Mountains (East-Central China), and Taxonomic Remarks on the Related Species. *Phytotaxa* [J] 498(4): 227-241. [E] 2021: [230]. doi: 10.11646/phytotaxa.498.4.1

TYPE: X. X. Zhu ZHUXX059 (holotype: KUN; isotype: KUN, CSH); D. Q. Huang H2018100106 (paratype: IBK, GLMC); X. X. Zhu, J. Wang & M. H. Wang ZXX202619 (paratype: KUN, HIB); X. X. Zhu, J. Wang & M. H. Wang ZXX202034 (paratype: KUN, HIB); X. X. Zhu, J. Wang & M. H. Wang ZXX202098 (paratype: KUN)

CHINA (Hubei*)

Evidence: morphology; ITS

Lycoris wulingensis S. Y. Zhang 武陵石蒜 [New Species]

ZHANG Si-yu, HUANG Ying, ZHANG Pei, ZHU Ke-run, CHEN Yong-bing, SHAO Jian-wen. *Lycoris wulingensis*, a Dwarf New Species of Amaryllidaceae from Hunan, China. *PhytoKeys* [J] 177: 1-9. [E] 2021: [3]. doi: 10.3897/phytokeys.177.62741

TYPE: S. Y. Zhang ZSY202008001 (holotype: ANUB; isotype: PE, KUN)

CHINA (Hunan*)

IUCN: DD; **Evidence:** morphology

Shoubiaonia W. H. Qin, W. Q. Meng & Kun Liu 守标蒜属 [New Genus]

QIN Wei-hua, MENG Wei-qi, ZHANG Dong, WANG Ying, LI Zhong-lin, SUN Lu, LIU Kun. A New Amaryllidaceae Genus, *Shoubiaonia*, from Yunnan Province, China. *Nordic Journal of Botany* [J] 39(e02703): 1-8. [E] 2021: [7]. doi: 10.1111/njb.02703

TYPE: *Shoubiaonia yunnanensis* W. H. Qin, W. Q. Meng & Kun Liu

Evidence: morphology; nrITS, matK, rbcL; chromosome

Shoubiaonia yunnanensis W. H. Qin, W. Q. Meng & Kun Liu 云南守标蒜 [New Species]

QIN Wei-hua, MENG Wei-qi, ZHANG Dong, WANG Ying, LI Zhong-lin, SUN Lu, LIU Kun. A New Amaryllidaceae Genus, *Shoubiaonia*, from Yunnan Province, China. *Nordic Journal of Botany* [J] 39(e02703): 1-8. [E] 2021: [7]. doi: 10.1111/njb.02703

TYPE: W. H. Qin & K. Liu 2017027 (holotype: ANUB); W. H. Qin & K. Liu 2017034 (paratype: ANUB, KUN)

CHINA (Yunnan*)

IUCN: EN; **Evidence:** morphology; nrITS, matK, rbcL; chromosome

Anacardiaceae 漆树科

Spondias pinnata (L. f.) Kurz [New Synonyms]

LE Chi-toan, LIN Qin-wen, TAN Yun-hong, ZHU Ren-bin, HAO Yun-qing, LIU Bing. The Identity of *Buchanania yunnanensis*, as a New Synonym of *Spondias pinnata* (Anacardiaceae). *Phytotaxa* [J] 528(3): 209-214. [E] 2021: [213]. doi: 10.11646/phytotaxa.528.3.5

TYPE: J. G. König s.n. (holotype: C-1000527)

CHINA (Yunnan); **INDIA***

Evidence: morphology

S: *Buchanania yunnanensis* C. Y. Wu (Sino-Russian Yunnan Exped. 9019, holotype: KUN-568378; isotype: KUN-568379, PE-2245945)

Annonaceae 番荔枝科

Artabotrys pachypetalus B. Xue & Junhao Chen 厚瓣鹰爪花 [New Species]

XUE Bin-e, WANG Gang-tao, ZHOU Xin-xin, HUANG Yi, TONG Yi, LI Yong-quan, CHEN Junhao. *Artabotrys pachypetalus* (Annonaceae), a New Species from China. *PhytoKeys* [J] 178: 71-80. [E] 2021: [73]. doi: 10.3897/phytokeys.178.64485

TYPE: X. X. Zhou, G. T. Wang & Y. N. Guo 0028 (holotype: IBSC-0861926; isotype: KUN, SING); Y. Huang 341 (paratype: IBSC, SING); B. Xue XB342 (paratype: IBSC, SING); B. Xue XB343 (paratype: IBSC, SING); S. K. Lau 29060 (paratype: IBSC, PE); L. Wu & Y. Tong 3234 (paratype: BNU); B. Y. Huang, X. Y. Hu & J. J. Yao 451223130331025LY (paratype: GXMG); C. Z. Gao & A. Y. Lan 61263 (paratype: GXMI); D. Fang & al. 25102 (paratype: GXMI); J. Q. Zhang 1144 (paratype: CCNU, GF, GZAC); R. B. Jiang 81-0080 (paratype: GF, IBSC); R. B. Jiang 80 (paratype: CCNU); M. Z. Yang 810247 (paratype: HGAS); Y. K. Li 10039 (paratype: IBSC); Y. K. Li 10462 (paratype: HGAS); Z. R. Xu L1224 (paratype: IBSC); K. M. Lan 840097 (paratype: GFS, GZAC); K. M. Lan 841268 (paratype: GFS, GZAC); Q. W. Sun 0505019 (paratype: GZTM); C. Z. Dang & P. Dang 156 (paratype: PE); s.coll. 77-1635 (paratype: HGAS); Z. Y. Cao 0575 (paratype: PE); s.coll. 77-1594 (paratype: HGAS); C. Z. Dang 030 (paratype: HGAS); S. H. Chun 2490 (paratype: IBSC, IBK); J. Y. Xu, L. X. Yuan, Y. R. Wang, J. R. Chen JLS-304 (paratype: SYS); Group-236 0852 (paratype: PE)

CHINA (Guangdong*, Guangxi, Guizhou, Hunan, Jiangxi)

Evidence: morphology

Meiogyne oligocarpa B. Xue & Y. H. Tan [New Species]

XUE Bin-e, SHAO Yun-yun, XIAO Chun-fen, LIU Ming-fai, LI Yong-quan, TAN Yun-hong. *Meiogyne oligocarpa* (Annonaceae), a New Species from Yunnan, China. *PeerJ* [J] 9(e10999): 1-17. [E] 2021: [6]. doi: 10.7717/peerj.10999

TYPE: C. F. Xiao C400733 (holotype: HITBC; isotype: IBSC); Ge-jiu Forestry Bureau Exped. 94111 (paratype: KUN); W. Q. Xiao C400431 (paratype: HITBC); W. Q. Xiao C400583 (paratype: HITBC); Y. Y. Shao SYY26 (paratype: IBSC); Y. Y. Shao SYY27 (paratype: IBSC); Y. Y. Shao SYY28 (paratype: IBSC, HKU); Y. H. Tan & H. B. Ding XTBG0007 (paratype: HITBC); B. Yang XTBG0104 (paratype: HITBC); B. Yang XTBG0181 (paratype: HITBC)

CHINA (Yunnan*)

Evidence: morphology; matK, trnL-F, ndhF-rpl32

Monoon fragrans (Dalzell) B. Xue & R. M. K. Saunders
[Excluded from China]

XUE Bin-e, NURMAWATI Subekti, XU Yuan, LI Yong-quan. Excluding the Species *Monoon fragrans* (Annonaceae) from the Flora of China. *Phytotaxa* [J] 487(1): 91-96. [E] 2021: [92]. doi: 10.11646/phytotaxa.487.1.8

TYPE: N. A. Dalzell s.n. (lectotype: K-000691484)
INDIA*

Evidence: morphology

Pseuduvaria kwangtungensis (P. T. Li) Qing L. Wang & B. Xue
[New Combination]

WANG Qing-long, ZHANG Hui, SHAO Yun-yun, WANG Zhu-nian, XUE Bin-e. A Second Species of *Pseuduvaria* in China: the Identity of the Enigmatic Species *Meiogyne kwangtungensis*. *PhytoKeys* [J] 172: 1-15. [E] 2021: [5]. doi: 10.3897/phytokeys.172.61025

TYPE: F. C. How 73305 (holotype: IBSC-0003357; isotype: A-00066602, IBK-00190122, SN)

CHINA (Hainan*)

IUCN: CR; **Evidence:** morphology; psbA-trnH, trnL-F, matK, rbcL, atpB-rbcL

B: *Meiogyne kwangtungensis* P. T. Li

Trivalvaria tomentosa B. Xue, Y. H. Tan & Y. S. Chen 绒毛海
岛木 [New Species]

XUE Bin-e, LI Jian-wu, LIAO Jun-jie, MO Ming-zhong, TAN Yun-hong, CHEN You-sheng. *Trivalvaria tomentosa* (Annonaceae), a New Species from Southeast Yunnan, China. *Nordic Journal of Botany* [J] 39(e03215): 1-8. [E] 2021: [4]. doi: 10.1111/njb.03215

TYPE: Y. S. Chen PB-1048 (holotype: IBSC); J. W. Li 5653 (paratype: HITBC); K. H. Cai 213, 370 (paratype: KUN, PE, SWFC); P. Y. Mao 5362 (paratype: KUN, PE); S. J. Xuan 00110 (paratype: KUN, HITBC); Y. M. Shui, W. H. Chen, J. S. Shen 31211 (paratype: KUN); Y. S. Chen PB-1088 (paratype: IBSC); H. Zhu, H. Wang & B.G. Li 48704 (paratype: HITBC); Yunnan Exped. s.n. (paratype: PE-01187334, PE-01187335)

CHINA (Yunnan*)

Evidence: morphology; matK, ndhF, psbA-trnH, rbcL, trnL-F

Apiaceae 伞形科

Cyclorhiza puana Jing Zhou & Zhen W. Liu 炉霍环根芹 [New Species]

ZHOU Jing, NIU Jun-mei, WANG Xin-yue, WANG Pei, GUO Ming-jia, LIU Zhen-wen. *Cyclorhiza puana* (Apiaceae), a New Species from Sichuan, China. *PhytoKeys* [J] 182: 57-66. [E] 2021: [59]. doi: 10.3897/phytokeys.182.67009

TYPE: J. Zhou, Z. W. Liu & Y. Z. Gao LZ201606120 (holotype: KUN-1519999; isotype: KUN); X. X. Zhu, B. Chen, B. Shen & Y. G. Song CSH06561 (paratype: CSH-0037273)

CHINA (Sichuan*)

IUCN: DD; **Evidence:** morphology; ITS

Pterocyclus Klotzsch [New Recognition]

ZHOU Jing, WEI Jin, NIU Jun-mei, LIU Xiao-li, LIU Zhen-wen. Molecular Phylogenetics of *Pterocyclus* (Apiaceae) Based on nrDNA ITS Sequences: Revised Circumscription with a Restored Species. *Phytotaxa* [J] 498(2): 131-138. [E] 2021: [5]. doi: 10.11646/phytotaxa.498.2.6

TYPE: *Pterocyclus angelicoides* (Wall. ex DC.) Klotzsch

Evidence: morphology; ITS

S: *Hymenolaena* Wall. ex DC.; *Pleurospermum* Hoffm.

Pterocyclus angelicoides (Wall. ex DC.) Klotzsch [New Recognition]

ZHOU Jing, WEI Jin, NIU Jun-mei, LIU Xiao-li, LIU Zhen-wen. Molecular Phylogenetics of *Pterocyclus* (Apiaceae) Based on nrDNA ITS Sequences: Revised Circumscription with a Restored Species. *Phytotaxa* [J] 498(2): 131-138. [E] 2021: [6]. doi: 10.11646/phytotaxa.498.2.6

TYPE: N. Wallich 548 (lectotype: G-DC; isotype: BM, CAL, E- 00000207, G, K- 000685357, K-000685358, LE)

CHINA (Sichuan, Xizang, Yunnan); **INDIA***

Evidence: morphology; ITS

S: *Hymenolaena angelicoides* Wall. ex DC.; *Pleurospermum angelicoides* (Wall. ex DC.) Benth. ex C. B. Clarke

Pterocyclus forrestii (Diels) Pimenov & Kljuykov [New Recognition]

ZHOU Jing, WEI Jin, NIU Jun-mei, LIU Xiao-li, LIU Zhen-wen. Molecular Phylogenetics of *Pterocyclus* (Apiaceae) Based on nrDNA ITS Sequences: Revised Circumscription with a Restored Species. *Phytotaxa* [J] 498(2): 131-138. [E] 2021: [6]. doi: 10.11646/phytotaxa.498.2.6

TYPE: G. Forrest 2580 (lectotype: E- 00000166; isotype: K)

CHINA (Yunnan*)

Evidence: morphology; ITS

S: *Angelica forrestii* Diels

Pterocyclus rotundatus (DC.) Pimenov & Kljuykov [New Recognition]

ZHOU Jing, WEI Jin, NIU Jun-mei, LIU Xiao-li, LIU Zhen-wen. Molecular Phylogenetics of *Pterocyclus* (Apiaceae) Based on nrDNA ITS Sequences: Revised Circumscription with a Restored Species. *Phytotaxa* [J] 498(2): 131-138. [E] 2021: [6]. doi: 10.11646/phytotaxa.498.2.6

TYPE: N. Wallich 549 (holotype G-DC; isotype: K-000685356, CAL, LE))

CHINA (Xizang); **NEPAL***

Evidence: morphology; ITS

S: *Hymenolaena rotundata* DC.; *Pleurospermum rotundatum* (DC.) Benth. ex C. B. Clarke

Pterocyclus wolffianus Fedde ex H. Wolff [New Recognition]

ZHOU Jing, WEI Jin, NIU Jun-mei, LIU Xiao-li, LIU Zhen-wen. Molecular Phylogenetics of *Pterocyclus* (Apiaceae) Based on nrDNA ITS Sequences: Revised Circumscription with a Restored Species. *Phytotaxa* [J] 498(2): 131-138. [E] 2021: [6]. doi: 10.11646/phytotaxa.498.2.6

TYPE: G. Forrest 8958 (lectotype: E- 00000149; isotype: K- 000685360, NAS)

CHINA (Yunnan*)

Evidence: morphology; ITS

S: *Pleurospermum longicarpum* R. H. Shan & Z. H. Pan

Similisinocarum Cauwet & Farille [New Recognition]

GUO Xian-lin, PRICE Megan, GOU Wei, ZHOU Song-dong, GAO Xin-fen, HE Xing-jin. Resurrection of the Genus *Similisinocarum* (Apiaceae) Based on Evidence from Morphology and ITS Sequences. *Phytotaxa* [J] 497(2): 127-137. [E] 2021: [135]. doi: 10.11646/phytotaxa.497.2.5

TYPE: *Similisinocarum normanianum* Cauwet & Farille

Evidence: morphology; ITS

S: *Sinocarum* H. Wolff ex R. H. Shan & F. T. Pu

Similisinocarum normanianum Cauwet & Farille [New Recognition]

GUO Xian-lin, PRICE Megan, GOU Wei, ZHOU Song-dong, GAO Xin-fen, HE Xing-jin. Resurrection of the Genus *Similisinocarum* (Apiaceae) Based on Evidence from Morphology and ITS Sequences. *Phytotaxa* [J] 497(2): 127-137. [E] 2021: [135]. doi: 10.11646/phytotaxa.497.2.5

TYPE: Lall Dhwoj 50 (holotype: BM-00622357; isotype: BM-00521541)

CHINA (Xizang); **NEPAL***

Evidence: morphology; ITS

S: *Sinocarum normanianum* (Cauwet & Farille) Farille

Sium crispulifolium (H. Boissieu) Jing Zhou 缙叶泽芹 [New Combination]

ZHOU Jing, NIU Jun-mei, GUO Ming-jia, WANG Pei, LIU Zhen-wen. Rediscovery of *Pimpinella crispulifolia* (Apiaceae) after One Century, and Its New Phylogenetic Placement in *Sium*. *Phytotaxa* [J] 487(2): 157-163. [E] 2021: [161]. doi: 10.11646/phytotaxa.487.2.6

TYPE: F. Ducloux 4083 (holotype: P-00752662)

CHINA (Yunnan*)

Evidence: morphology; ITS

B: *Pimpinella crispulifolia* H. Boissieu

Sium crispulifolium (H. Boissieu) Jing Zhou 缙叶泽芹 [Rediscovery]

ZHOU Jing, NIU Jun-mei, GUO Ming-jia, WANG Pei, LIU Zhen-wen. Rediscovery of *Pimpinella crispulifolia* (Apiaceae) after One Century, and Its New Phylogenetic Placement in *Sium*. *Phytotaxa* [J] 487(2): 157-163. [E] 2021: [161]. doi: 10.11646/phytotaxa.487.2.6

TYPE: F. Ducloux 4083 (holotype: P-00752662)

CHINA (Yunnan*)

Evidence: morphology; ITS

Tetrataenium mianguaqi Ze H. Wang & Li Chen bis [New Species]

WANG Ze-huan, WANG Yi, LIU Bao-lin, WANG Chao-he, FU Xian-guo. A New Species of *Tetrataenium* (Tordyliinae, Apiaceae) from SW Yunnan, China, Based on Morphological and Molecular Data. *Phytotaxa* [J] 491(1): 85-91. [E] 2021: [86]. doi: 10.11646/phytotaxa.491.1.10

TYPE: B. L. Liu & G. R. Wei & al. 5309270873 (holotype: KUN; isotype: CMMI)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; nrITS

Apocynaceae 夹竹桃科

Cynanchum hubeiense Wen B. Xu, B. S. Xia & J. Y. Shen 湖北豹药藤 [New Species]

XU Wen-bin, XIA Bo-shun, WU Jin-qing, CHEN Yu-xing, SHEN Jian-yong. *Cynanchum hubeiense* (Apocynaceae), a New Species from Hubei, China. *Taiwania* [J] 66(1): 53-56. [E] 2021: [53]. doi: 10.6165/tai.2021.66.53

TYPE: Wen B. Xu & B. S. Xia 200209 (holotype: HIB; isotype: HITBC)

CHINA (Hubei*)

IUCN: CR; **Evidence:** morphology

Hoya pyrifolia E. F. Huang [New Species]

HUANG Er-feng, YAO Gang, JIANG Ri-hong, YANG Lei-lei, XI Wang, ZHANG Zhong-shuai, ZHANG Xian-chun. *Hoya pyrifolia* (Apocynaceae), a New Species from South-western Yunnan, China. *PhytoKeys* [J] 174: 95-106. [E] 2021: [101]. doi: 10.3897/phytokeys.174.60137

TYPE: E. F. Huang 1905009 (holotype: PE; isotype: PE)

CHINA (Yunnan*)

Evidence: morphology; ETS, ITS, matK, psbA-trnH, trnT-trnL

Hoya tetrantha J. Feng Zhang, Y. H. Tong & N. H. Xia 四花球兰 [New Species]

ZHANG Jing-feng, TONG Yi-hua, XIA Nian-he. *Hoya tetrantha* (Apocynaceae, Asclepiadoideae), a New Species from Yunnan, China. *Journal of Tropical and Subtropical Botany* [J] 29(2): 139-142. [E] 2021: [140]. doi: 10.11926/jtsb.4289

TYPE: C. H. Chen & J. F. Zhang SCBG-20170340 (holotype: IBSC; isotype: KUN); C. H. Chen & J. F. Zhang SCBG-20160705 (paratype: IBSC)

CHINA (Yunnan*)

Evidence: morphology

Vincetoxicum emeiense Si Y. Zeng & Q. Y. Yang 峨眉白前 [New Species]

ZENG Si-yuan, YANG Qi-yi, YU Jie, SHEN Jian-yong. *Vincetoxicum emeiense* (Asclepiadeae, Asclepiadoideae, Apocynaceae), a New Species from Sichuan, China. *Phytotaxa* [J] 505(1): 56-62. [E] 2021: [59]. doi: 10.11646/phytotaxa.505.1.3

TYPE: Q. Y. Yang 0001 (holotype: HITBC; isotypes: FJFC)

CHINA (Sichuan*)

IUCN: DD; **Evidence:** morphology

Vincetoxicum subcanescens S. A. Shah & A. Sultan [New Species]

SHAH Sayed Afzal, SULTAN Amir, WEN Jun, ULLAH Zahid, NISA Surat Un, REN Zhu-mei, ALAM Muhammad Maqsood, IQBAL Javed, MUMTAZ Abdul Samad. Taxonomy of *Vincetoxicum* s.str. (Asclepiadoideae, Apocynaceae) from Southern Asia including Three New Species and Resurrected Names. *PhytoKeys* [J] 179: 35-73. [E] 2021: [68]. doi: 10.3897/phytokeys.179.62514

TYPE: S. A. Shah & A. Ullah SAS-8A (holotype: RAW)

CHINA (Xizang); **PAKISTAN***

IUCN: LC; **Evidence:** morphology

Vincetoxicum sui (Y. H. Tseng & C. T. Chao) T. C. Hsu [New Combination]

HSU Tian-Chuan, HUANG Wei-Jie, CHUNG Shih-Wen. *Vincetoxicum* (Apocynaceae: Asclepiadoideae) in Taiwan: Two New Combinations and a New Record. *Phytotaxa* [J] 478(2): 287-290. [E] 2021: [289]. doi: 10.11646/phytotaxa.478.2.11

TYPE: Y. H. Tseng 4668 (holotype: TCF)

CHINA (Taiwan*)

Evidence: morphology

B: *Tylophora sui* Y. H. Tseng & C. T. Chao

Vincetoxicum taiwanense (Hatus.) T. C. Hsu [New Combination]

HSU Tian-Chuan, HUANG Wei-Jie, CHUNG Shih-Wen. *Vincetoxicum* (Apocynaceae: Asclepiadoideae) in Taiwan: Two

New Combinations and a New Record. *Phytotaxa* [J] 478(2): 287-290. [E] 2021: [289]. doi: 10.11646/phytotaxa.478.2.11

TYPE: S. Suzuki s.n. (holotype: KAG-006419)

CHINA (Taiwan*)

Evidence: morphology

B: *Tylophora taiwanensis* Hatus.

Aponogetonaceae 水蕹科

Aponogeton undulatus Roxb. 波缘水蕹 [New Record]

HE Song, HU Yan-hua, LIU Qin, ZHANG Rui, ZHENG Xi-long, WU Lei. *Aponogeton undulatus* Roxb., a Newly Recorded Species of Aponogetonaceae from China. *Journal of Tropical and Subtropical Botany* [J] 29(3): 311-316. [C] 2021: [313]. doi: 10.11926/jtsb.4317

CHINA (Hainan); BANGLADESH, INDIA, INDONESIA, MALAYSIA, MYANMAR, THAILAND

Evidence: morphology

Aquifoliaceae 冬青科

Ilex pubescens Hook. & Arn. f. *xanthocarpa* Xi Liu, X. D. Mei & Z. H. Chen 黄果毛冬青 [New Form]

CHI Fang-he, LIU Xi, ZHANG Feng-yao, PU Jin-bao, CHEN Jian-bo, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (X). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3): 79-84. [C] 2021: [83]. doi: 10.3969/j.issn.1001-3776.2021.03.012

TYPE: X. Liu, X. D. Mei & Z. H. Chen TS21010908 (holotype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Arecaceae 棕榈科

Wallichia nana Griff. [New Synonyms]

MEHMUD S., ROY H. *Didymosperma gracilis*, a New Synonym of *Wallichia nana* (Arecaceae). *Rheedea* [J] 31(2): 89-91. [E] 2021: [96]. doi: 10.22244/rheedea.2021.31.02.10

TYPE: Jenkins s.n. (type: A-00421704, BH, BR-0000006876920, BR-0000006877255, K-000400177, L-0042007, NY, P-00491422)

CHINA (Xizang); INDIA*

Evidence: morphology

S: *Didymosperma gracilis* Hook. f. (Booth s.n., holotype: K-000400178)

Aristolochiaceae 马兜铃科

Aristolochia vestita Ohi-Toma, Pan Li & Watan.-Toma 磐安马兜铃 [New Species]

OHI-TOMA Tetsuo, WATANABE-TOMA Kana, LI Pan, SUGAWARA Takashi, MURATA Jin. *Aristolochia vestita*, a New Species of Subgenus *Siphisia* (Aristolochiaceae) from Zhejiang, China. *The Journal of Japanese Botany* [J] 96(5): 253-263. [E] 2021: [256].

TYPE: T. Ohi-Toma & al. 130503A (holotype: TI; isotype: HZU)

CHINA (Zhejiang*)

Evidence: morphology; trnK, atpB, rbcL, trnS-trnG

Asarum caudigerellum C. Y. Cheng & C. S. Yang var. *huayeense* X. X. Bai & X. D. Cao 花叶短尾细辛 [New Variety]

HUANG Hong, CAO Xiao-dong, BAI Xin-xiang. A New Variety of *Asarum* L. from Guizhou Province. *Guizhou Science* [J] 39(6): 24-26. [C] 2021: [25].

TYPE: X. X. Bai & X. D. Cao 005272 (holotype: GZAC)

CHINA (Guizhou*)

Evidence: morphology

Asarum caudigerum Hance f. *leptophyllum* (Hayata) Wei J. Wu, J. F. Wang & Z. H. Chen 薄叶细辛 [New Combination]

YAN Fu-bin, XIE Wen-yuan, WANG Jun-feng, WU Dong-hao, CHEN Xian-xing, CHEN Zheng-hai. New Materials in Flora of Zhejiang Province (III). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 80-85. [C] 2021: [83]. doi: 10.3969/j.issn.1001-3776.2021.05.013

TYPE: B. Hayata & T. Ito s.n. (holotype: TI-T00371; isotype: TI-T00372)

CHINA (Taiwan*, Zhejiang)

Evidence: morphology

B: *Asarum leptophyllum* Hayata

Isotrema compressicaule (Z. L. Yang) X. X. Zhu & S. Liao [New Combination]

LIAO Shuai, ZHU Xin-xin, YAN Jing, DU Cheng, LI Hong-qing. The Valid Publication and Identity of *Aristolochia compressicaulis* (Aristolochiaceae). *Phytotaxa* [J] 513(1): 75-79. [E] 2021: [77]. doi: 10.11646/phytotaxa.513.1.6

TYPE: Z. L. Yang 484311 (holotype: EMA)

CHINA (Chongqing*)

Evidence: morphology

B: *Aristolochia compressicaulis* Z. L. Yang

Isotrema pseudohei X. X. Zhu, Jun Wang tris & G. D. Li 拟何氏关木通 [New Species]

WANG Jun, LI Guo-dong, YANG Juan-juan, SHEN Bin, PU Chun-xia, ZHU Xin-xin. Taxonomic Studies on the Genus *Isotrema* (Aristolochiaceae) from China III: I. *pseudohei*, a New Species from Yunnan, Southwest China. *PhytoKeys* [J] 186: 43-52. [E] 2021: [44]. doi: 10.3897/phytokeys.186.63543

TYPE: X. X. Zhu & al. ZXX18249 (holotype: CSH-0157854; isotype: CSH, KUN); X. X. Zhu & al. ZXX18250 (paratype: CSH, KUN)

CHINA (Yunnan*)

IUCN: VU; **Evidence:** morphology

Asparagaceae 天门冬科

Aspidistra depingiana Y. H. Tan & H. B. Ding 景洪蜘蛛抱蛋 [New Species]

DING Hong-bo, XIONG Kai-chun, YANG Bin, YIN Jian-tao, BOUAMANIVONG Somsanith, TAN Yun-hong. New Species and Taxonomic Notes of *Aspidistra* (Asparagaceae) for the Flora of China and Laos. *Taiwania* [J] 66(4): 439-449. [E] 2021: [439]. doi: 10.6165/tai.2021.66.439

TYPE: Y. H. Tan 5369 (holotype: HITBC); D. P. Ye T0404 (paratype: HITBC-0030038, HITBC-0030039); D. P. Ye T0462 (paratype: HITBC-0030044, TAI)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology

Aspidistra latistyla F. Y. Mo, C. R. Lin & Yan Liu [New Species]

MO Fu-yan, ZHANG Shou-zhou, LIN Chun-rui, LIU Yan. *Aspidistra latistyla* (Asparagaceae), a New Species from China. *Phytotaxa* [J] 512(1): 73-78. [E] 2021: [73]. doi: 10.11646/phytotaxa.512.1.6

TYPE: F. Y. Mo & C. R. Lin XH 2019-001 (holotype: SZG; isotype: IBK); C. R. Lin & Z. C. Lu 1301 (paratype: IBK)

CHINA (Guangdong*, Guangxi)

Evidence: morphology

Aspidistra longhuiensis G. W. Hu, Zhi Wang & Q. F. Wang 隆回蜘蛛抱蛋 [New Species]

WANG Zhi, PENG Shuai, PENG Ying, HU Guang-wan, WANG Qing-feng. *Aspidistra longhuiensis* (Asparagaceae), a New Species from Hunan, China. *Phytotaxa* [J] 510(1): 89-93. [E] 2021: [89]. doi: 10.11646/phytotaxa.510.1.10

TYPE: Z. Wang & G. W. Hu HGW-001316 (holotype: HIB; isotype: HIB, HNU, IBK)

CHINA (Hunan*)

Evidence: morphology

Aspidistra sutepeensis K. Larsen [New Record]

DING Hong-bo, XIONG Kai-chun, YANG Bin, YIN Jian-tao, BOUAMANIVONG Somsanith, TAN Yun-hong. New Species and Taxonomic Notes of *Aspidistra* (Asparagaceae) for the Flora of China and Laos. *Taiwania* [J] 66(4): 439-449. [E] 2021: [445]. doi: 10.6165/tai.2021.66.439

TYPE: K. Larsen 4929 (holotype: C-10013947)

CHINA (Yunnan); THAILAND*

Evidence: morphology

Aspidistra yuelushanensis L. Wu & X. L. Yu 岳麓山蜘蛛抱蛋 [New Species]

DENG Chuang-fa, WU Lei, YU Xun-lin, XU Yong-fu, LI Jia-xiang. *Aspidistra yuelushanensis* (Asparagaceae), a New Species from Hunan, China. *Phytotaxa* [J] 482(2): 183-190. [E] 2021: [187]. doi: 10.11646/phytotaxa.482.2.6

TYPE: C. F. Deng & al. 19031901 (holotype: CSFI-069615; isotype: CSFI, IBK); C. F. Deng & al. 20032701 (paratype: CSFI); C. F. Deng & al. 20032801 (paratype: CSFI); C. F. Deng & al. 20040201 (paratype: CSFI)

CHINA (Hunan*)

Evidence: morphology

Ophiopogon elatior Q. W. Lin, Zhi Y. Yu, Bing Liu & C. T. Le 高莛沿阶草 [New Species]

LIN Qin-wen, LE Chi-toan, YU Zhi-yong, SUN Guo-feng, LIU Bing. *Ophiopogon elatior*, a New Species of Asparagaceae from Yunnan, China. *Phytotaxa* [J] 525(1): 46-50. [E] 2021: [47]. doi: 10.11646/phytotaxa.525.1.5

TYPE: Yunnan Exped. YN-ET 260 (holotype: PE; isotype: PE)

CHINA (Yunnan*)

Evidence: morphology

Polygonatum caulialatum S. R. Yi 翅茎黄精 [New Species]

CHEN Hong-yuan, HUANG Ya, ZHOU Xiao-xu, YI Si-rong. *Polygonatum caulialatum*, a New Species of Medicinal Plant of Polygonatum (Asparagaceae) from Sichuan, China. *Phytotaxa* [J] 513(1): 55-61. [E] 2021: [55]. doi: 10.11646/phytotaxa.513.1.3

TYPE: S. R. Yi YSR8198 (holotype: KUN-1510464; isotype: PE); S. R. Yi YSR8611 (paratype: KUN, PE)

CHINA (Sichuan*)

Evidence: morphology

Polygonatum hunanense Hui H. Liu & B. Z. Wang [New Synonyms]

XIA Mao-qin, LIU Ying, LIU Jing-jing, CHEN Dong-hong, SHI Yan, BAI Zhi-cong, XIAO Yu, PENG Chen, SI Jin-ping, LI Pan, QIU Ying-xiong. A New Synonym of *Polygonatum* in

China, Based on Morphological and Molecular Evidence. *PhytoKeys* [J] 175: 137-149. [E] 2021: [146]. doi: 10.3897/phytokeys.175.63383

TYPE: Hui H. Liu & B. Z. Wang 2018060901a (holotype: JIU-83621)

CHINA (Chongqing, Hubei, Hunan*, Sichuan)

IUCN: LC; **Evidence:** morphology; rbcL, trnK, psbA-trnH, trnC-petN

S: *Polygonatum kingianum* Collett & Hemsl. var. *grandifolium* D. M. Liu & W. Z. Zeng (Hao Zhang 1231, lectotype: CDCM-00044013; isolectotype: CDCM-00044022)

Polygonatum hunanense Hui H. Liu & B. Z. Wang 湘黄精 [New Species]

LIU Hui-hua, MA Yu-shen, WANG Ben-zhong, JIE Hong-dong, XIANG Shi-jun, YANG Jia-ning, JIE Yu-cheng. Morphological and Molecular Characters on a New Species of *Polygonatum hunanense* from Hunan, China. *Crop Research* [J] 35(1): 88-94. [C] 2021: [91]. doi: 10.16848/j.cnki.issn.1001.5280.2021.01.15

TYPE: Hui H. Liu & B. Z. Wang 2018060901a (holotype: JIU-83621)

CHINA (Hunan*)

Evidence: morphology; trnC-petNF, trnC-petNR, trnKF, trnKR, psbA-trnHF, psbA-trnHR, rbcLF, rbcLR

Rohdea changii Hui Z. Feng & Z. Qiang Lu [New Species]

FENG Hui-zhe, LU Zhi-qiang. *Rohdea changii* (Asparagaceae), A New Species from Northwestern Yunnan, China. *Phytotaxa* [J] 508(1): 93-100. [E] 2021: [93]. doi: 10.11646/phytotaxa.508.1.9

TYPE: H. Z. Feng & Z. Q. Lu 1122 (holotype: HITBC)

CHINA (Yunnan*)

Evidence: morphology; ITS, matK, rbcL, rps16, trnH-psbA, trnL

Rohdea wangiana H. Z. Feng & Z. Qiang Lu [New Species]

FENG Hui-zhe, LU Zhi-qiang, HAN Qing-xiang, SHEN Heng-lun. *Rohdea wangiana* (Asparagaceae), a New Species from Southwestern Sichuan, China. *Phytotaxa* [J] 523(3): 247-253. [E] 2021: [248]. doi: 10.11646/phytotaxa.523.3.5

TYPE: H. Z. Feng & Z. Q. Lu 1327 (holotype: HITBC)

CHINA (Sichuan*)

Evidence: morphology

Asteraceae 菊科

Ainsliaea polystachya X. X. Su & M. J. Zhang 多穗兔儿风 [New Species]

ZHANG Mei-jiao, SU Xiang-xiu, AN Chang, LI Hong-qing, ZHANG Zhen. *Ainsliaea polystachya* (Asteraceae), a New Species from Fujian, China Based on Morphological and Molecular Evidence. *Phytotaxa* [J] 497(3): 277-284. [E] 2021: [279]. doi: 10.11646/phytotaxa.497.3.6

TYPE: X. X. Su SXX20201101 (holotype: HSNU-00079855; isotype: HSNU-00079856, CSH-0183101, CSH-0183102, CSH-0183103, PE-2347182, PE-02347183)

CHINA (Fujian*)

Evidence: morphology; ITS, ETS, ndhF

Artemisia anomala S. Moore [New Synonyms]

GUO Xin-qiang, WANG Long, YANG Qin-er. Clarification of Some Morphological Characters in *Artemisia anomala* (Asteraceae, Anthemideae), with Reduction of var. *tomentella* and var. *acuminatissima* to the Synonymy of the Species.

Phytotaxa [J] 520(1): 57-74. [E] 2021: [60]. doi: 10.11646/phytotaxa.520.1.4

TYPE: T. Sampson s.n. (lectotype: K-000891834); G. Shearer s.n. (syntype: K-000891835, K-000891837); O. von Möllendorff s.n. (syntype: K-000891836)

CHINA (Anhui, Fujian, Guangdong*, Guangxi, Jiangxi, Taiwan, Zhejiang)

Evidence: morphology

S: *Artemisia anomala* S. Moore var. *tomentella* Hand.-Mazz. (R. C. Ching 3800, lectotype: W-0100966; isoelectotype: UPS-V-936434); *Artemisia anomala* S. Moore var. *acuminatissima* Y. R. Ling (s.coll. 1214, holotype: KUN-0040353; isotype: HHBG-HZ046738, HHBG-HZ046739, NAS-00503610, PE-00420731, WUK-0177578)

Artemisia anomala S. Moore [Typification]

GUO Xin-qiang, WANG Long, YANG Qin-er. Clarification of Some Morphological Characters in *Artemisia anomala* (Asteraceae, Anthemideae), with Reduction of var. *tomentella* and var. *acuminatissima* to the Synonymy of the Species.

Phytotaxa [J] 520(1): 57-74. [E] 2021: [60]. doi: 10.11646/phytotaxa.520.1.4

TYPE: T. Sampson s.n. (lectotype: K-000891834); G. Shearer s.n. (syntype: K-000891835, K-000891837); O. von Möllendorff s.n. (syntype: K-000891836)

CHINA (Anhui, Fujian, Guangdong*, Guangxi, Jiangxi, Taiwan, Zhejiang)

Evidence: morphology

Artemisia flaccida Hand.-Mazz. [Typification]

GUO Xin-qiang, WANG Long, YANG Qin-er. *Artemisia flaccida* (Asteraceae, Anthemideae) Is Merged with *A. fulgens*, with Transfer of *A. flaccida* var. *meiguensis* to *A. fulgens*.

Phytotaxa [J] 514(3): 221-237. [E] 2021: [235]. doi: 10.11646/phytotaxa.514.3.3

TYPE: H. Smith 13540 (lectotype: UPS-V-083129; isoelectotype: A-00002754, A-00124146, BM-000945899, F-1482747, GB-0047183, MO-1626714, MO-1626728, PE-00029953, PE-00421991, S-08-6031, W-1940-0013606)

CHINA (Sichuan*)

Evidence: morphology

Artemisia fulgens Pamp. [Typification]

GUO Xin-qiang, WANG Long, YANG Qin-er. *Artemisia flaccida* (Asteraceae, Anthemideae) Is Merged with *A. fulgens*, with Transfer of *A. flaccida* var. *meiguensis* to *A. fulgens*.

Phytotaxa [J] 514(3): 221-237. [E] 2021: [235]. doi: 10.11646/phytotaxa.514.3.3

TYPE: A. E. Pratt 88 (lectotype: E-00417240; isoelectotype: B, BM, K-000891843)

CHINA (Sichuan*)

Evidence: morphology

Artemisia fulgens Pamp. [New Synonyms]

GUO Xin-qiang, WANG Long, YANG Qin-er. *Artemisia flaccida* (Asteraceae, Anthemideae) Is Merged with *A. fulgens*, with Transfer of *A. flaccida* var. *meiguensis* to *A. fulgens*.

Phytotaxa [J] 514(3): 221-237. [E] 2021: [235]. doi: 10.11646/phytotaxa.514.3.3

TYPE: A. E. Pratt 88 (lectotype: E-00417240; isoelectotype: B, BM, K-000891843)

CHINA (Sichuan*)

Evidence: morphology

S: *Artemisia flaccida* Hand.-Mazz. (H. Smith 13540, lectotype: UPS-V-083129; isoelectotype: A-00002754, A-00124146, BM-000945899, F-1482747, GB-0047183, MO-1626714, MO-1626728, PE-00029953, PE-00421991, S-08-6031, W-1940-0013606)

Artemisia fulgens Pamp. var. *meiguensis* (Y. R. Ling) X. Qiang Guo, Long Wang & Q. E. Yang [New Combination]

GUO Xin-qiang, WANG Long, YANG Qin-er. *Artemisia flaccida* (Asteraceae, Anthemideae) Is Merged with *A. fulgens*, with Transfer of *A. flaccida* var. *meiguensis* to *A. fulgens*.

Phytotaxa [J] 514(3): 221-237. [E] 2021: [236]. doi: 10.11646/phytotaxa.514.3.3

TYPE: Sichuan Chin. Trad. Med. Inst. 373 (holotype: SM-719400788)

CHINA (Sichuan*, Yunnan)

Evidence: morphology

B: *Artemisia flaccida* Hand.-Mazz. var. *meiguensis* Y. R. Ling

Artemisia qinlingensis Y. Ling & Y. R. Ling [Typification]

GUO Xin-qiang, WANG Long, YANG Qin-er. *Artemisia taibaishanensis* (Asteraceae, Anthemideae), a New Synonym of *A. qinlingensis* from China. **Phytotaxa** [J] 487(2): 125-138. [E] 2021: [127]. doi: 10.11646/phytotaxa.487.2.3

TYPE: K. M. Liou 5256 (lectotype: PE-00444516; isoelectotype: PE-00444517, PE-00444518, WUK)

CHINA (Henan*, Shaanxi)

Evidence: morphology

Artemisia qinlingensis Y. Ling & Y. R. Ling [New Synonyms]

GUO Xin-qiang, WANG Long, YANG Qin-er. *Artemisia taibaishanensis* (Asteraceae, Anthemideae), a New Synonym of *A. qinlingensis* from China. **Phytotaxa** [J] 487(2): 125-138. [E] 2021: [127]. doi: 10.11646/phytotaxa.487.2.3

TYPE: K. M. Liou 5256 (lectotype: PE-00444516; isoelectotype: PE-00444517, PE-00444518, WUK)

CHINA (Henan*, Shaanxi)

Evidence: morphology

S: *Artemisia taibaishanensis* Y. R. Ling & Humphries (W. Y. Hsia 4736, holotype: PE-00478176; isotype: IBSC-0731570, WUK)

Aster jiangkouensis X. L. Yu & Xiong Li 江口紫菀 [New Species]

LI Xiong, WU Lei, YU Xun-lin. *Aster jiangkouensis* (Asteraceae), a New Species from Guizhou, China. **Phytotaxa** [J] 483(1): 75-79. [E] 2021: [78]. doi: 10.11646/phytotaxa.483.1.4

TYPE: X. Li 19110201 (holotype: CSFI; isotype: CSFI)

CHINA (Guizhou*)

IUCN: EN; **Evidence:** morphology

Aster sanqingensis G. J. Zhang & T. G. Gao [New Species]

ZHANG Guo-jin, SHEN Jia-hao, JIAO Bo-han, NIU Guo-hao, ZHONG Fang-hua, LI Guo, GAO Tian-gang. Cryptic Diversity on Cliffs: *Aster sanqingensis*, a New Species of Asteraceae from Eastern China. **Systematic Botany** [J] 46(3): 628-638. [E] 2021: [630]. doi: 10.1600/036364421X16312067913390

TYPE: G. J. Zhang 350-1 (holotype: PE)

CHINA (Jiangxi*)

Evidence: morphology

Aster sanqingshanica J. W. Xiao & W. P. Li 三清山紫菀 [New Species]

XIAO Jia-wei, ZHAO Qing-ya, XIE Dan, TANG Zhong-bing, LI Wei-ping. *Aster sanqingshanica* (Asteraceae, Astereae), a New Species from

Jiangxi, China. *Nordic Journal of Botany* [J] 39(e02990): 1-9. [E] 2021: [8]. doi: 10.1111/njb.02990

TYPE: J. W. Xiao XJW2020060304 (holotype: HNNU; isotype: HNNU); J. W. Xiao XJW2019100801 (paratype: HNNU); J. W. Xiao XJW2019100802 (paratype: HNNU)

CHINA (Jiangxi*)

IUCN: EN; **Evidence:** morphology; ITS, ETS

Carpesium zhejiangense Y. L. Xu, H. W. Zhang & Y. F. Lu 浙江天名精 [New Species]

XU Yue-liang, ZHANG Hong-wei, LU Yi-fei. *Carpesium zhejiangense* (Asteraceae, trib. Inuleae), a New Species from Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 261-268. [C] 2021: [264]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.007

TYPE: H. W. Zhang T003 (holotype: ZM; isotype: HTC, PE)

CHINA (Zhejiang*)

Evidence: morphology; ITS, trnL-F

Cirsium henryi (Franch.) Diels [Typification]

JIN Zi-chao, CHEN You-sheng. The Identity of *Cirsium henryi* (Asteraceae, Cardueae). *Phytotaxa* [J] 487(3): 263-272. [E] 2021: [263]. doi: 10.11646/phytotaxa.487.3.6

TYPE: A. Henry 6764 (lectotype: P-00705765; isolectotype: K-000778201, K-000778201, K-000778202, BM-000598141, BM-000598142, P-00705766, A-00006077)

CHINA (Hubei*)

Evidence: morphology

Cirsium melanolepis Petr. [Typification]

JIN Zi-chao, CHEN You-sheng. The Identity of *Cirsium henryi* (Asteraceae, Cardueae). *Phytotaxa* [J] 487(3): 263-272. [E] 2021: [267]. doi: 10.11646/phytotaxa.487.3.6

TYPE: J. F. Rock 4751 (lectotype: E-00383880; isolectotype: US-00116136); G. Forrest 6215 (syntype: E-00459670)

CHINA (Yunnan*)

Evidence: morphology

Cirsium paludigenum Y. F. Lu, Z. H. Chen & X. F. Jin 沼生垂头菊 [New Species]

LU Yi-fei, CHEN Zheng-hai, SUN Wen-yan, JIN Xiao-feng. Two New Species in *Cirsium* (Asteraceae) from Zhejiang. *Journal of Plant Resources and Environment* [J] 30(1): 1-8. [C] 2021: [5]. doi: 10.3969/j.issn.1674-7895.2021.01.01

TYPE: Z. H. Chen & al. WC2018090707 (holotype: ZM; isotypes: HTC, PE)

CHINA (Zhejiang*)

Evidence: morphology

Cirsium taiwanense Y. H. Tseng & Chih Y. Chang 台湾菊 [New Species]

CHANG Chih-yi, TZENG Hsy-yu, TSENG Yen-hsueh. *Cirsium taiwanense* (Compositae, *Cirsium* sect. *Onotrophe*, subsect. *Australicirsium*), a New Species from Taiwan. *PhytoKeys* [J] 183: 35-53. [E] 2021: [47]. doi: 10.3897/phytokeys.183.70119

TYPE: C. Y. Chang 2976 (holotype: TCF; isotype: TNM, PPI)

CHINA (Taiwan*)

IUCN: LC; **Evidence:** morphology; chromosome

Cirsium taliense (Jeffrey) H. Lév. [Typification]

JIN Zi-chao, CHEN You-sheng. The Identity of *Cirsium henryi* (Asteraceae, Cardueae). *Phytotaxa* [J] 487(3): 263-272. [E] 2021: [264]. doi: 10.11646/phytotaxa.487.3.6

TYPE: G. Forrest 10 (lectotype: E-00383866); Maire 1289 (syntype: E)

CHINA (Yunnan*)

Evidence: morphology

Cirsium taliense (Jeffrey) H. Lév. [New Synonyms]

JIN Zi-chao, CHEN You-sheng. The Identity of *Cirsium henryi* (Asteraceae, Cardueae). *Phytotaxa* [J] 487(3): 263-272. [E] 2021: [264]. doi: 10.11646/phytotaxa.487.3.6

TYPE: G. Forrest 10 (lectotype: E-00383866); Maire 1289 (syntype: E)

CHINA (Yunnan*)

Evidence: morphology

S: *Cirsium chlorolepis* Petr. ex Hand.-Mazz. (Schoch 279, holotype: WU-0061227)

Cirsium tsoongianum Y. Ling 钟氏菊 [New Synonyms]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [95]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: K. K. Tsoong D420 (holotype: PE)

CHINA (Zhejiang*)

Evidence: morphology

S: *Cirsium lineare* (Thunb.) Sch.Bip. var. *tsoongianum* (Y. Ling) Y. Ling; *Cirsium tianmushanicum* C. Shih (Y. Y. Ho 713, holotype: WUK)

Cirsium zhejiangense Z. H. Chen & X. F. Jin 浙江垂头菊 [New Species]

LU Yi-fei, CHEN Zheng-hai, SUN Wen-yan, JIN Xiao-feng. Two New Species in *Cirsium* (Asteraceae) from Zhejiang. *Journal of Plant Resources and Environment* [J] 30(1): 1-8. [C] 2021: [2]. doi: 10.3969/j.issn.1674-7895.2021.01.01

TYPE: X. F. Jin & T. T. Yu 3202 (holotype: ZM; isotypes: HTC, PE)

CHINA (Zhejiang*)

Evidence: morphology

Ixeridium dimorphifolium Y. L. Xu, Y. F. Lu & X. Cai 二型叶小苦荬 [New Species]

LU Yi-fei, XU Yue-liang, XIE Wen-yuan, ZHANG Hong-wei, ZHENG Zi-hong, CAI Xin, JIN Xiao-feng. Two New Species and a New Combination from Zhejiang, East China. *PhytoKeys* [J] 184: 111-126. [E] 2021: [119]. doi: 10.3897/phytokeys.184.73327

TYPE: X. F. Jin 4568 (holotype: ZM; isotype: HTC, ZM)

CHINA (Zhejiang*)

IUCN: EN; **Evidence:** morphology

Jacobaea racemulifera (Pavlov) C. Ren & Q. E. Yang [New Combination]

FEI Wen-qun, LI Hui-min, REN Chen, YANG Qin-er. Nuclear ITS/ETS Sequence Data Indicate the Membership of *Senecio*

racemulifer, but not *S. acutipinnus* and *S. graciliflorus*, within the Genus *Jacobaea* (Asteraceae, Senecioneae). *Phytotaxa* [J] 512(3): 129-146. [E] 2021: [140]. doi: 10.11646/phytotaxa.512.3.1

TYPE: N. V. Pavlov 150 (holotype: AA; isotype: MW)

CHINA (Xinjiang); **KAZAKHSTAN**, **KYRGYZSTAN**, **UZBEKISTAN***

Evidence: morphology; ITS, ETS; chromosome

B: *Senecio racemulifer* Pavlov

Ligularia dentata (Gray) Hara [New Synonyms]

WANG Long. The Identity of *Ligularia yesoensis* var. *pulchella* (Asteraceae, Senecioneae). *Phytotaxa* [J] 523(2): 199-202. [E] 2021: [199]. doi: 10.11646/phytotaxa.523.2.7

TYPE: C. Wright s.n. (holotype: GH-00009795; isotype: NY-00391973)

CHINA (Hubei); **JAPAN***

Evidence: morphology

S: *Ligularia yesoensis* Franch. var. *pulchella* Pamp.; *Ligularia hodgsonii* Hooker var. *pulchella* (Pamp.) Hand.-Mazz. (C. Silvestri 3238a, holotype: FI-016868)

Lihengia Y. S. Chen & R. Ke [New Genus]

CHEN You-sheng, XU Lian-sheng, KE Rui, HARRIS Aj, LI Hui-min. *Lihengia*: A New Genus of Asteraceae Distinct from *Dubya*. *Taxon* [J] 70(3): 620-634. [E] 2021: [630]. doi: 10.1002/tax.12428

TYPE: *Lihengia amoena* (Hand.-Mazz.) Y. S. Chen & R. Ke

Evidence: morphology; ITS, petD, psbA-trnH, 5'trnL-trnF, rpl32-trnL, trnQ-5'rps16; chromosome

Lihengia amoena (Hand.-Mazz.) Y. S. Chen & R. Ke [New Combination]

CHEN You-sheng, XU Lian-sheng, KE Rui, HARRIS Aj, LI Hui-min. *Lihengia*: A New Genus of Asteraceae Distinct from *Dubya*. *Taxon* [J] 70(3): 620-634. [E] 2021: [630]. doi: 10.1002/tax.12428

TYPE: H. Handel-Mazzetti 9913 (holotype: WU-0061216; isotype: E-00394875, K-000808257, M-0030838)

CHINA (Xizang, Yunnan)

Evidence: morphology; ITS, petD, psbA-trnH, 5'trnL-trnF, rpl32-trnL, trnQ-5'rps16; chromosome

B: *Lactuca amoena* Hand.-Mazz.

Lihengia gombalana (Hand.-Mazz.) Y. S. Chen & R. Ke [New Combination]

CHEN You-sheng, XU Lian-sheng, KE Rui, HARRIS Aj, LI Hui-min. *Lihengia*: A New Genus of Asteraceae Distinct from *Dubya*. *Taxon* [J] 70(3): 620-634. [E] 2021: [631]. doi: 10.1002/tax.12428

TYPE: H. Handel-Mazzetti 9889 (holotype: WU-0061215; isotype: E-00394874, K-000808260, M-0030840, P-00750287)

CHINA (Xizang, Yunnan)

Evidence: morphology; ITS, petD, psbA-trnH, 5'trnL-trnF, rpl32-trnL, trnQ-5'rps16; chromosome

B: *Lactuca gombalana* Hand.-Mazz.

Saussurea linearifolia Ludlow 条叶雪莲 [New Record]

CHEN You-sheng. *Saussurea linearifolia* Ludlow, a New Record of Asteraceae from China. *Journal of Tropical and Subtropical Botany* [J] 29(2): 147-148. [C] 2021: [147]. doi: 10.11926/jtsb.4257

TYPE: O. Polunin, Sykes & Williams 3387 (holotype: BM; isotype: K-000792067)

CHINA (Xizang); **INDIA**, **NEPAL***

Evidence: morphology

Schkuhria Roth 史库菊属 [New Record]

XIN Xiao-wei, ZHAO Hong, GAO De-min, QU Chang-you, LIU Hong-yan, WANG Cong-cong. *Schkuhria*, a Newly Naturalized Genus of Asteraceae in China. *Plant Science Journal* [J] 39(1): 1-4. [C] 2021: [2]. doi: 10.11913/PSJ.2095-0837.2021.10001

TYPE: *Schkuhria abrotanoides* Roth

Evidence: morphology

Schkuhria pinnata (Lam.) Kuntze ex Thell. 史库菊 [New Record]

XIN Xiao-wei, ZHAO Hong, GAO De-min, QU Chang-you, LIU Hong-yan, WANG Cong-cong. *Schkuhria*, a Newly Naturalized Genus of Asteraceae in China. *Plant Science Journal* [J] 39(1): 1-4. [C] 2021: [2]. doi: 10.11913/PSJ.2095-0837.2021.10001

CHINA (Shandong); **[AMERICA]**

Evidence: morphology

Senecio acutipinnus Hand.-Mazz. [New Synonyms]

FEI Wen-qun, LI Hui-min, REN Chen, YANG Qin-er. Nuclear ITS/ETS Sequence Data Indicate the Membership of *Senecio racemulifer*, but not *S. acutipinnus* and *S. graciliflorus*, within the Genus *Jacobaea* (Asteraceae, Senecioneae). *Phytotaxa* [J] 512(3): 129-146. [E] 2021: [140]. doi: 10.11646/phytotaxa.512.3.1

TYPE: G. Forrest 16044 (lectotype: E-00385523; isolectotype: K-000852129)

CHINA (Guizhou, Yunnan*); **VIETNAM**

Evidence: morphology; ITS, ETS; chromosome

S: *Jacobaea acutipinna* (Hand.-Mazz.) Sennikov

Senecio graciliflorus DC. [New Synonyms]

FEI Wen-qun, LI Hui-min, REN Chen, YANG Qin-er. Nuclear ITS/ETS Sequence Data Indicate the Membership of *Senecio racemulifer*, but not *S. acutipinnus* and *S. graciliflorus*, within the Genus *Jacobaea* (Asteraceae, Senecioneae). *Phytotaxa* [J] 512(3): 129-146. [E] 2021: [141]. doi: 10.11646/phytotaxa.512.3.1

TYPE: Wall. Cat. 3149/259A (lectotype: G-00329591; isolectotype: BM-00035583, K-000102344, P-00743055, P-00743056, P-00743058, PH-00010086)

CHINA (Sichuan, Xizang, Yunnan); **INDIA***, **NEPAL**, **MALAYSIA**, **VIETNAM**

Evidence: morphology; ITS, ETS; chromosome

S: *Jacobaea graciliflora* (DC.) Sennikov

Senecio graciliflorus DC. [Typification]

FEI Wen-qun, LI Hui-min, REN Chen, YANG Qin-er. Nuclear ITS/ETS Sequence Data Indicate the Membership of *Senecio racemulifer*, but not *S. acutipinnus* and *S. graciliflorus*, within the Genus *Jacobaea* (Asteraceae, Senecioneae). *Phytotaxa* [J] 512(3): 129-146. [E] 2021: [141]. doi: 10.11646/phytotaxa.512.3.1

TYPE: Wall. Cat. 3149/259A (lectotype: G-00329591; isolectotype: BM-00035583, K-000102344, P-00743055, P-00743056, P-00743058, PH-00010086)

CHINA (Sichuan, Xizang, Yunnan); **INDIA***, **NEPAL**, **MALAYSIA**, **VIETNAM**

Evidence: morphology; ITS, ETS; chromosome

Synotis jinshajiangensis M. Tang 金沙江合耳菊 [New Species]

LIU Yu-Lin, ZHU Xin-Xin, PENG Yu-Lan, TANG Ming. *Synotis jinshajiangensis* (Asteraceae: Senecioneae), a New Species from Northwestern Yunnan, China. *Phytotaxa* [J] 478(1): 162-170. [E] 2021: [164]. doi: 10.11646/phytotaxa.478.1.12

TYPE: Qinghai-Xizang Exped. 2555 (holotype: PE-01535802; isotype: PE-01535803, CDBI-0150030, CDBI-0150824, KUN-0070212, KUN-0070213)

CHINA (Yunnan*)

IUCN: NT; Evidence: morphology

Synotis nagensium (C. B. Clarke) C. Jeffrey & Y. L. Chen [New Synonyms]

TANG Ming, CHEN You-sheng. *Blumea hunanensis* Is a Synonym of *Synotis nagensium* (Asteraceae: Senecioneae). *Phytotaxa* [J] 487(2): 149-156. [E] 2021: [155]. doi: 10.11646/phytotaxa.487.2.5

TYPE: C. B. Clarke 41984A (lectotype: K-000843880); C. B. Clarke 41984B (syntype: K-000843881)

CHINA (Hunan); INDIA*

Evidence: morphology

S: *Blumea hunanensis* L. D. Duan & Yun Lin (L. D. Duan & Z. Lu 5813, holotype: PE-02232681; isotype: HUFD, HUSY, BM, E, GZAC, IBK, IBSC, K, KUN, MO, PE)

Synotis nagensium (C. B. Clarke) C. Jeffrey & Y. L. Chen [Typification]

TANG Ming, CHEN You-sheng. *Blumea hunanensis* Is a Synonym of *Synotis nagensium* (Asteraceae: Senecioneae). *Phytotaxa* [J] 487(2): 149-156. [E] 2021: [155]. doi: 10.11646/phytotaxa.487.2.5

TYPE: C. B. Clarke 41984A (lectotype: K-000843880); C. B. Clarke 41984B (syntype: K-000843881)

CHINA (Hunan); INDIA*

Evidence: morphology

Youngia hangii T. Deng, D. G. Zhang, Qun Liu & Zhi M. Li 五峰黄鹌菜 [New Species]

LIU Qun, HUANG Gui-yun, ZHANG Dai-gui, ZHANG Jian-wen, DENG Tao, LI Zhi-min. *Youngia hangii* (Asteraceae, Crepidinae), a New Species from Hubei, China. *PhytoKeys* [J] 182: 27-38. [E] 2021: [31]. doi: 10.3897/phytokeys.182.71063

TYPE: D. G. Zhang & Qun Liu HAC 001 (holotype: KUN-1511675; isotype: KUN-1511676, JSU-HHE 3256)

CHINA (Hubei*)

Evidence: morphology; ITS, rps16

Balanophoraceae 蛇菰科

Balanophora appressa R. X. Yu & S. Y. Zhou 粤西蛇菰 [New Species]

YU Run-xian, ZHOU Song-yan, LI Yuan-qiu, MA Kai-nan, LI You-yu, HUANG Lin-sheng, ZHOU Ren-chao, LIU Ying. Two New Species of *Balanophora* (Balanophoraceae) from South China. *Systematic Botany* [J] 46(4): 1053-1066. [E] 2021: [1063]. doi: 10.1600/036364421X16370110179500

TYPE: R. X. Yu 005a, b (holotype: IBSC; isotype: SYS); R. X. Yu 006 (paratype: SYS)

CHINA (Guangdong*)

IUCN: DD; Evidence: morphology; nrITS

Balanophora parajaponica R. X. Yu, S. Y. Zhou & Y. Q. Li 拟日本蛇菰 [New Species]

YU Run-xian, ZHOU Song-yan, LI Yuan-qiu, MA Kai-nan, LI You-yu, HUANG Lin-sheng, ZHOU Ren-chao, LIU Ying. Two New Species of *Balanophora* (Balanophoraceae) from South China. *Systematic Botany* [J] 46(4): 1053-1066. [E] 2021: [1063]. doi: 10.1600/036364421X16370110179500

TYPE: R. X. Yu 001a, b (holotype: IBSC; isotype: SYS); R. X. Yu 003 (paratype: SYS); Ziyuan Exped. 450329160921001LY (paratype: IBK); R. X. Yu 004 (paratype: SYS)

CHINA (Guangdong*, Guangxi, Hainan)

IUCN: NT; Evidence: morphology; nrITS

Balsaminaceae 凤仙花科

Impatiens aquatilis Hook. f. [Typification]

PENG Shuai, RONO Peninah Cheptoo, YANG Jia-xin, WANG Jun-jie, HU Guang-wan, WANG Qing-feng. Description of a New Species and Lectotypification of Two Names in *Impatiens* sect. *Racemosae* (Balsaminaceae) from China. *Plants (MDPI)* [J] 10(1812): 1-11. [E] 2021: [6]. doi: 10.3390/plants10091812

TYPE: F. Ducloux 532 (lectotype: K-000694599)

CHINA (Yunnan*)

Evidence: morphology

Impatiens bullatiseppala G. W. Hu, Y. Y. Cong & Q. F. Wang 泡萼凤仙花 [New Species]

PENG Shuai, CONG Yi-yan, TIAN Jing, ZHANG Cai-fei, HU Guang-wan, WANG Qing-feng. *Impatiens bullatiseppala* (Balsaminaceae), a New Species from Guizhou, China. *Phytotaxa* [J] 500(3): 217-223. [E] 2021: [220]. doi: 10.11646/phytotaxa.500.3.5

TYPE: S. Peng PS-0052 (holotype: HIB; isotype: HIB, HNNU)

CHINA (Guizhou*)

Evidence: morphology; ITS, atpB-rbcL

Impatiens clavicuspis Hook. ex W. W. Smith [Typification]

PENG Shuai, RONO Peninah Cheptoo, YANG Jia-xin, WANG Jun-jie, HU Guang-wan, WANG Qing-feng. Description of a New Species and Lectotypification of Two Names in *Impatiens* sect. *Racemosae* (Balsaminaceae) from China. *Plants (MDPI)* [J] 10(1812): 1-11. [E] 2021: [6]. doi: 10.3390/plants10091812

TYPE: A. Henry 9762 (lectotype: K-000199723)

CHINA (Yunnan*)

Evidence: morphology

Impatiens lihengiana Y. Y. Cong & G. W. Hu [New Species]

SONG Yong-xiu, XIAO Yan, PENG Shuai, CONG Yi-yan, HU Guang-wan. Two New Species of *Impatiens* from China, and Taxonomic Insights into the Longifilamenta Group, Which Is Endemic to China. *Plants (MDPI)* [J] 10(1697): 1-15. [E] 2021: [6]. doi: 10.3390/plants10081697

TYPE: Y. Xiao LS-794 (holotype: CSH; isotype: CSH)

CHINA (Hunan*)

Evidence: morphology; nrITS, atpB-rbcL

Impatiens longiaristata S. Peng, G. W. Hu & Q. F. Wang [New Species]

PENG Shuai, RONO Peninah Cheptoo, YANG Jia-xin, WANG Jun-jie, HU Guang-wan, WANG Qing-feng. Description of a New Species and Lectotypification of Two

Names in *Impatiens* sect. *Racemosae* (Balsaminaceae) from China. *Plants (MDPI)* [J] 10(1812): 1-11. [E] 2021: [3]. doi: 10.3390/plants10091812

TYPE: S. Peng, J. X. Yang & J. J. Wang PS-0096 (holotype: HIB-0189503; isotype: HIB-0189504, HIB-0189505, HIB-0189506)

CHINA (Sichuan*)

IUCN: LC; **Evidence:** morphology; nrITS, atpB-rbcL

Impatiens longshanensis Y. Y. Cong & Y. X. Song [New Species] **SONG Yong-xiu, XIAO Yan, PENG Shuai, CONG Yi-yan, HU Guang-wan.** Two New Species of *Impatiens* from China, and Taxonomic Insights into the Longifilamenta Group, Which Is Endemic to China. *Plants (MDPI)* [J] 10(1697): 1-15. [E] 2021: [2]. doi: 10.3390/plants10081697

TYPE: Y. Y. Cong 35443 (holotype: HIB; isotype: HNU)

CHINA (Hunan*)

Evidence: morphology; nrITS, atpB-rbcL

Impatiens rapiformis Y. Y. Cong & Y. X. Song [New Species] **SONG Yong-xiu, PENG Shuai, CONG Yi-yan, ZHENG Yi-ming.** *Impatiens rapiformis*, a New Species of *Impatiens* with Root Tuber from Yunnan, China. *Nordic Journal of Botany* [J] 39(e03151): 1-7. [E] 2021: [2]. doi: 10.1111/njb.03151

TYPE: Y. Y. Cong 21289 (holotype: HNU; isotype: HNU)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; ITS, atpB-rbcL

Impatiens shangjiangensis Y. Y. Cong & J. Z. Gu [New Species] **GU Jian-zhong, YANG Ning, PENG Yang-cheng, SONG Yong-xiu, GUO Shi-wei, CONG Yi-yan.** *Impatiens shangjiangensis* (Balsaminaceae), a New Species from Yunnan, China. *Annales Botanici Fennici* [J] 58(4-6): 181-187. [E] 2021: [198]. doi: 10.5735/085.058.0401

TYPE: J. Z. Gu 32241 (holotype: HNU; isotype: HNU)

CHINA (Yunnan*)

Evidence: morphology

Impatiens sterilis Y. Y. Cong & Y. X. Song 丝序凤仙花 [New Species]

SONG Yong-xiu, CONG Yi-yan, KUANG Ren-ping, PENG Yang-cheng, ZHENG Yi-ming. *Impatiens sterilis*, a Rare New Species of *Impatiens* with Reduced Sterile Inflorescences from Yunnan, China. *Taiwania* [J] 66(1): 48-52. [E] 2021: [48]. doi: 10.6165/tai.2021.66.48

TYPE: Y. Y. Cong 791435 (holotype: HNU; isotype: HNU)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology

Impatiens wutaishanensis R. L. Liao & Lei Cai 五台山凤仙花 [New Species]

LIAO Rong-li, CAI Lei, YU Zhi-yong, WANG Yue-hua, SUN Wei-bang. *Impatiens wutaishanensis* (Balsaminaceae), a New Species from Southeast Yunnan, China. *PhytoKeys* [J] 176: 43-53. [E] 2021: [45]. doi: 10.3897/phytokeys.176.58825

TYPE: Lei Cai & Z. Y. Yu CL16050 (holotype: KUN-1498854; isotype: KUN-1498855); Lei Cai & al. CL155 (paratype: KUN); R. L. Liao & X. Y. Li LRL202008003 (paratype: KUN); R. L. Liao & X. Y. Li LRL202008001 (paratype: KUN)

CHINA (Yunnan*)

IUCN: VU; **Evidence:** morphology

Begoniaceae 秋海棠科

Begonia arunachalensis D. Borah & Wahlsteen [New Species] **BORAH D., TARAM M., YAMA L., WAHLSTEEN E.** *Begonia arunachalensis* (Begoniaceae), a New Tuberous Species of *Begonia* from Arunachal Pradesh, India. *The Gardens' Bulletin Singapore* [J] 72(2): 475-480. [E] 2021: [476]. doi: 10.26492/gbs72(1).2020-17

TYPE: D. Borah, M. Taram & L. Yama 5671 (holotype: CAL; isotype: CAL)

CHINA (Xizang*)

IUCN: LC; **Evidence:** morphology

Begonia caryotarum Y. M. Shui & W. H. Chen [New Species] **DONG Wen-ke, LI Jing-xiu, CHEN Wen-hong, XIAO Bo, SHUI Yu-min.** *Begonia caryotarum* (*Begonia* sect. *Platycentrum*), a New Species from Southeast Yunnan, China. *Phytotaxa* [J] 529(1): 113-118. [E] 2021: [113]. doi: 10.11646/phytotaxa.529.1.9

TYPE: Y. M. Shui, J. X. Li & al. B2021-002 (holotype: KUN)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Begonia fagopyrofolia W. H. Chen & Y. M. Shui [New Species] **CHEN Wen-Hong, WU Jian-Yong, RADBOUCHOUM Sirilak, SHUI Yu-Min.** Validation and Morphology of *Begonia fagopyrofolia* in B. sect. *Stolonifera* (Begoniaceae) in China. *Phytotaxa* [J] 479(1): 105-113. [E] 2021: [111]. doi: 10.11646/phytotaxa.479.1.8

TYPE: Y. M. Shui & W. H. Chen 44326 (holotype: KUN; isotype: IBSC, KUN, PE)

CHINA (Yunnan*)

IUCN: VU; **Evidence:** morphology

Begonia fagopyrofolia W. H. Chen & Y. M. Shui, nom. nud., Seed Plants of the Karst Region in China, vol. 1., figs 116a-d, 2006.

Begonia fenshuilingensis X. X. Feng, R. K. Li & Z. X. Liu 分水岭秋海棠 [New Species]

FENG Xin-xin, LIU Zhi-xian, WEI Dan, LI Ren-kun, HUANG Yu-ni, GUO Le-dong, GUO Wei, CHEN Su-fang. *Begonia fenshuilingensis*, a New Species in *Begonia* sect. *Platycentrum* (Begoniaceae) from Southeastern Yunnan, China. *Phytotaxa* [J] 527(4): 266-274. [E] 2021: [267]. doi: 10.11646/phytotaxa.527.4.4

TYPE: X. X. Feng, R. K. Li & Z. X. Liu s.n. (holotype: SYS-0023630; isotype: SYS, CSH)

CHINA (Yunnan*)

IUCN: VU; **Evidence:** morphology; ITS

Begonia giganticaulis D. K. Tian & W. G. Wang 巨型秋海棠 [New Species]

TIAN Dai-ke, WANG Wen-guang, DONG Li-na, XIAO Yan, ZHENG Min-min, GE Bin-jie. A New Species (*Begonia giganticaulis*) of Begoniaceae from Southern Xizang (Tibet) of China. *PhytoKeys* [J] 187: 189-205. [E] 2021: [194]. doi: 10.3897/phytokeys.187.75854

TYPE: D. K. Tian & al. TDK4773-A (holotype: CSH-0180561)

CHINA (Xizang*)

IUCN: EN; **Evidence:** morphology; ITS, rpL16, ndhA

Begonia hymenophylloides Kingdon-Ward ex L. B. Sm. & Wassh. [New Species]

TIAN Jing, WANG Yan, REN Jing, PENG Shuai, WANG Jun-jie, ZHANG Cai-fei, HU Guang-wan. Rediscovery and Supplemental Description of *Begonia hymenophylloides* (Begoniaceae) as New Record in China. *Phytotaxa* [J] 528(2): 139-143. [E] 2021: [139]. doi: 10.11646/phytotaxa.528.2.7
TYPE: F. K. Ward 7334 (type: K)
CHINA (Yunnan); **MYANMAR***
Evidence: morphology

Begonia nangunheensis Y. M. Shui & W. H. Chen [New Species]
GUO Shi-wei, CHEN Wen-hong, AUNG Aung, RADBOUCHOOM Sirilak, ZHAO Jin-chao, LI Zhi-hong, SHUI Yu-min. *Begonia nangunheensis*, a New Species of Begoniaceae from Yunnan Province, China. *Phytotaxa* [J] 480(2): 201-209. [E] 2021: [202]. doi: 10.11646/phytotaxa.480.2.9
TYPE: S. W. Guo & H. H. Xi B2017-121 (holotype: KUN; isotype: PE)
CHINA (Yunnan*)
IUCN: CR; **Evidence:** morphology

Begonia oyuniae M. Taram & N. Krishna [New Species]
TARAM M., BORAH D., KRISHNA N., PRADEEP A. K., AMRUTHA A., HUGHES M. *Begonia oyuniae* (Begonia sect. Monophyllon, Begoniaceae), a Remarkable New Species from Northeast India. *The Gardens' Bulletin Singapore* [J] 72(1): 109-115. [E] 2021: [110]. doi: 10.26492/gbs72(1).2020-10
TYPE: M. Taram 301 (holotype: CAL; isotype: ASSAM)
CHINA (Xizang*)
IUCN: LC; **Evidence:** morphology

Begonia pasighatensis D. Borah, Taram & Wahlsteen [New Species]
BORAH Dipankar, TARAM Momang, WAHLSTEEN Eric. A New *Begonia* Species from Arunachal Pradesh, and Some Notes on *Begonia scintillans*. *Taiwania* [J] 66(4): 450-454. [E] 2021: [450]. doi: 10.6165/tai.2021.66.450
TYPE: M. Taram & D. Borah 3271 (holotype: CAL; isotype: CAL)
CHINA (Xizang*)
Evidence: morphology

Begonia pseudoedulis D. K. Tian, X. X. Feng & R. K. Li 假食用秋海棠 [New Species]
FENG Xin-xin, XIAO Yan, LIU Zhi-xian, LI Ren-kun, WEI Dan, TIAN Dai-ke. *Begonia pseudoedulis*, a New Species in Begonia sect. *Platycentrum* (Begoniaceae) from Southern Guangxi of China. *PhytoKeys* [J] 182: 113-124. [E] 2021: [116]. doi: 10.3897/phytokeys.182.69074
TYPE: X. X. Feng, Z. X. Liu, & R. K. Li FXX201001 (holotype: CSH-0185896; isotype: CSH, SYS)
CHINA (Guangxi*)
IUCN: NT; **Evidence:** morphology; ITS

Begonia scorpiuroloba D. K. Tian & Q. Tian 蝎尾裂秋海棠 [New Species]
TIAN Dai-Ke, GE Bin-Jie, XIAO Yan, TIAN Qi, LI Chun. *Begonia scorpiuroloba*, a New Species in Begonia sect. *Platycentrum* (Begoniaceae) from Southern Guangxi of China. *Phytotaxa* [J] 479(2): 191-197. [E] 2021: [191]. doi: 10.11646/phytotaxa.479.2.5
TYPE: C. Li & L. H. Yang TDK2269 (holotype: CSH-0149988)
CHINA (Guangxi*)

IUCN: CR; **Evidence:** morphology

Begonia shenzhenensis D. K. Tian & X. Yun Wang 深圳秋海棠 [New Species]
TIAN Dai-ke, CHEN Bin, XIAO Yan, ZHENG Min-min, GE Bin-jie. *Begonia shenzhenensis*, a New Species of Begoniaceae from Guangdong, China. *PhytoKeys* [J] 178: 171-177. [E] 2021: [172]. doi: 10.3897/phytokeys.178.66462
TYPE: D. K. Tian, X. Yun Wang, B. Chen & S. P. Zhong TDK4160 (holotype: CSH-0182483); X. Yun Wang TDK 3981 (paratype: CSH); D. K. Tian TDK4832 (paratype: CSH)
CHINA (Guangdong*)
IUCN: CR; **Evidence:** morphology

Berberidaceae 小檗科

Berberis pruinosa Franch. 粉叶小檗 [New Synonyms]
LI Xin-hua, YUAN Sen, FAN Jun, SHI Xiao-ping. Morphological Variation Patterns of *Berberis pruinosa* (Berberidaceae) and Its Taxonomic Revision. *Journal of Tropical and Subtropical Botany* [J] 29(4): 401-405. [C] 2021: [402]. doi: 10.11926/jtsb.4307
TYPE: Delavay 493 (lectotype: P-00716556)
CHINA (Yunnan*)
Evidence: morphology
S: *Berberis pruinosa* Franch. var. *barresiana* Ahrendt (Barres 156-32, type: K-1092826); *Berberis pruinosa* Franch. var. *brevifolia* Ahrendt; *Berberis pruinosa* Franch. var. *longifolia* Ahrendt; *Berberis pruinosa* Franch. var. *serratifolia* Ahrendt

Berberis pruinosa Franch. 粉叶小檗 [Typification]
LI Xin-hua, YUAN Sen, FAN Jun, SHI Xiao-ping. Morphological Variation Patterns of *Berberis pruinosa* (Berberidaceae) and Its Taxonomic Revision. *Journal of Tropical and Subtropical Botany* [J] 29(4): 401-405. [C] 2021: [402]. doi: 10.11926/jtsb.4307
TYPE: Delavay 493 (lectotype: P-00716556)
CHINA (Yunnan*)
Evidence: morphology

Dysosma pleiantha (Hance) Woodson f. *alba* (Masam.) W. Y. Xie & D. D. Ma 白花六角莲 [New Combination]
CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [94]. doi: 10.3785/j.issn.1008-9497.2021.01.013
CHINA (Taiwan, Zhejiang)
Evidence: morphology
B: *Podophyllum pleianthum* Hance var. *album* Masam.

Mahonia lancasteri O. Colin [New Species]
COLIN Olivier, HINSINGER Damien Daniel, STRIJK Joeri Sergej. *Mahonia lancasteri* (Berberidaceae), a New Species Originating from Sichuan (China) Described from Cultivation. *Phytotaxa* [J] 482(1): 45-54. [E] 2021: [46]. doi: 10.11646/phytotaxa.482.1.5
TYPE: O. Colin, J. Strijk, D. Hinsinger & R. Hinsinger BGT7000 (holotype: BGT)
CHINA (Sichuan*)
IUCN: DD; **Evidence:** morphology; accD, rbcL, ndhF, trnH-psbA

Bignoniaceae 紫葳科

Incarvillea uniflora H. P. Deng & Chang Y. Xia [New Species]
XIA Chang-ying, LAN Xiao-zhong, ZUO You-wei, LIN Le, DENG Hong-ping. *Incarvillea uniflora* (Bignoniaceae), a New Species from Hengduan Mountains, Southwest China. *Phytotaxa* [J] 528(1): 52-58. [E] 2021: [278]. doi: 10.11646/phytotaxa.528.1.5

TYPE: X. Z. Lan, L. Q. Li & J. Luo 542129130803144LY (holotype: ISBC); X. Z. Lan, L. Q. Li & J. Luo 542129140618419LY (paratype: IBSC, SWCTU)

CHINA (Xizang*)

IUCN: DD; **Evidence:** morphology

Boraginaceae 紫草科

Eritrichium subjaquemontii Popov [New Synonyms]

HAO Jia-chen, WANG Ying-wei, LIU Quan-ru. *Eritrichium aktonense*, a New Synonym of *E. subjaquemontii* (Boraginaceae). *Phytotaxa* [J] 529(1): 119-124. [E] 2021: [120]. doi: 10.11646/phytotaxa.529.1.10

TYPE: Lipshits 451 (holotype: MW-0594327; isotype: MW-0594328)

CHINA (Xinjiang); **TAJIKISTAN***

Evidence: morphology

S: *Eritrichium aktonense* Y. S. Lian & J. Q. Wang (Northwest Inst. Bot. Xinjiang Exped. 751, holotype: NWTC-333228; isotype: NWTC-333227)

Pseudolappula occultata (Popov) Q. R. Liu & D. H. Liu [New Combination]

LIU Dan-hui, XU Xue-min, HE Yi, LIU Quan-ru. A New Combination in *Pseudolappula* (Boraginaceae, Rochelieae) Based on Morphological, Molecular and Palynological Evidence. *PhytoKeys* [J] 187: 77-92. [E] 2021: [86]. doi: 10.3897/phytokeys.187.75346

TYPE: Popov 697 (type: TASH-003719)

CHINA (Xinjiang); **TAJIKISTAN***

Evidence: morphology; ITS, trnL-F

B: *Lappula occultata* Popov

Brassicaceae 十字花科

Cardamine hunanensis Al-Shehbaz, L. Wu & W. J. Liu [New Species]

WU Lei, LIU Wen-jian, MU Cun, AL-SHEHBAZ Ihsan A. *Cardamine hunanensis* (Brassicaceae), a Remarkable New Species from Hunan (China) with Fully Bracteate Racemes. *Phytotaxa* [J] 512(1): 79-82. [E] 2021: [79]. doi: 10.11646/phytotaxa.512.1.7

TYPE: W. J. Liu & X. F. Song ms724 (holotype: CSFI-076072; isotype: CSFI)

CHINA (Hunan*)

Evidence: morphology

Cardamine xinfeniae Al-Shehbaz [Correction]

DENG Yun-fei. The Correct Spelling for the Name *Cardamine xinfenii* (Brassicaceae). *Phytotaxa* [J] 514(2): 180-180. [E] 2021: [180]. doi: 10.11646/phytotaxa.514.2.10

TYPE: S. H. Zhao & J. B. Shi 117125 (holotype: CDBI-10034702; isotype: SZ-00172780, SZ-00172784)

CHINA (Sichuan*)

Evidence: morphology

A: *Cardamine xinfenii* Al-Shehbaz

Microstigma junatovii Grubov 尤纳托夫小柱芥 [New Record]

WU Ye-hui, YANG Jin-rong, ZHAO Li-qing. Plant Classification and Geographical Distribution of *Microstigma* Trautv. *Guihaia* [J] 41(3): 464-469. [C] 2021: [468]. doi: 10.11931/guihaia.gxzw202006055

CHINA (Nei Mongol); **MONGOLIA**

Evidence: morphology

Orychophragmus ningboensis G. Y. Li, H. L. Lin & Xiu P. Li 宁波诸葛菜 [New Species]

LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [340].

TYPE: H. L. Lin LHL2014012 (holotype: ZJFC); X. P. Li FH20190143 (paratype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Rorippa hengduanshanensis Q. J. Zheng, C. C. Yu, T. S. Han & Y. W. Xing 横断山蔊菜 [New Species]

ZHENG Quan-jing, YU Chih-chieh, XING Yao-wu, HAN Ting-shen. A New *Rorippa* Species (Brassicaceae), *R. hengduanshanensis*, from the Hengduan Mountains in China. *Phytotaxa* [J] 480(3): 210-222. [E] 2021: [219]. doi: 10.11646/phytotaxa.480.3.1

TYPE: Q. J. Zheng 4639 (holotype: HITBC-0035715, isotype: HITBC, PE, KUN)

CHINA (Yunnan*)

IUCN: NT; **Evidence:** morphology; psbC-trnS, trnG-trnM, trnL

Smelowskia sunhangii T. Deng, X. J. Zhang & J. T. Chen 毛果藏芥 [New Species]

ZHANG Xin-jian, CHEN Jun-tong, AL-SHEHBAZ Ihsan A., LIU Qun, LI Li-juan, LIU Peng-ju, HUANG Xian-han, DENG Tao. *Smelowskia sunhangii* (Brassicaceae), a New Species from China, with a Re-Evaluation of the *S. tibetica* Complex. *PhytoKeys* [J] 178: 179-191. [E] 2021: [185]. doi: 10.3897/phytokeys.178.62922

TYPE: J. T. Chen, X. Zhang & T. H. Kuang HuangXH025-13 (holotype: KUN-1498313; isotype: KUN-1498314); D. G. Zhang DengT051-14 (paratype: KUN); P. J. Liu & H. H. Shi Deng7262 (paratype: KUN); T. Deng, X. H. Huang, Z. Y. Lv & L. J. Li DengT128-9 (paratype: KUN); T. Deng, X. H. Huang, Z. Y. Lv & L. J. Li DengT105-23 (paratype: KUN); J. W. Zhang, B. Yang & H. L. Chen Zh641 (paratype: KUN)

CHINA (Qinghai*, Xizang)

Evidence: morphology; ITS

Buxaceae 黄杨科

Sarcococca orientalis C. Y. Wu f. *variegata* X. D. Mei, Z. H. Chen & G. Y. Li 斑叶野扇花 [New Form]

LI Gen-you, WANG Jun-feng, XIE Wen-yuan, ZHANG Fen-yao, MEI Xu-dong, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (VIII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(1): 40-46. [C] 2021: [44]. doi: 10.3969/j.issn.1001-3776.2021.01.006

TYPE: J. Lin, Z. H. Chen & G. Y. Li JN 20101602 (holotype: ZM; isotype: ZM); Z. H. Chen & G. Y. Li JN 20101603 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Campanulaceae 桔梗科

Codonopsis atriplicifolia Yan Yu & Qiang Wang 滨藜叶党参 [New Species]

ZHOU Yu-yang, SI Yun-hao, ZHANG Zhen, WANG Qiang, YU Yan. *Codonopsis atriplicifolia* (Campanulaceae), a New Species from Western Sichuan, China. *Phytotaxa* [J] 512(3): 197-204. [E] 2021: [199]. doi: 10.11646/phytotaxa.512.3.7

TYPE: Y. Yu & al. DS02 (holotype: SZ-02042692; isotype: SZ-02042693, SZ-02042694, SZ-02042695)

CHINA (Sichuan*)

Evidence: morphology; matK, petB-petD, rbcL

Caprifoliaceae 忍冬科

Heptacodium miconioides Rehder subsp. *jasminoides* (Airy Shaw) Z. H. Chen, X. F. Jin & P. L. Chiu 浙江七子花 [New Combination]

CHEN Zheng-hai, QIU Bao-lin, XIE Wen-yuan, CHEN Feng, JIN Xiao-feng. New Materials of Caprifoliaceae in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 280-283 (294). [C] 2021: [280]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.010

TYPE: W. Hancock 98 (lectotype: K-00797646); W. Hancock 22 (syntype: K-00797647)

CHINA (Zhejiang*)

Evidence: morphology

B: *Heptacodium jasminoides* Airy Shaw

Lonicera gynochlamydea Hemsl. subsp. *dapanshanensis* Z. H. Chen, G. Y. Li & Jian S. Wang 大盘山忍冬 [New Subspecies]

LI Gen-you, XIE Wen-yuan, WANG Jian-sheng, CHEN Feng, CHEN Zheng-hai. New Examples of Biogeographical Evolution in Migration of Southwest China-Central China-East China Flora. *Journal of Zhejiang Forestry Science and Technology* [J] 41(6): 86-90. [C] 2021: [89]. doi: 10.3969/j.issn.1001-3776.2021.06.014

TYPE: L. L. Pan, A. G. He & Z. H. Chen PA21042901 (holotype: ZM; isotype: PE, ZM); L. Hong 2175 (paratype: HHBG); Z. H. Chen & al. PA21041001 (paratype: ZM); Y. H. Zhou, Y. R. Zhu & Z. H. Chen PA21043001 (paratype: ZM); Y. H. Zhou, Y. R. Zhu & Z. H. Chen PA21043002 (paratype: ZM); Y. H. Zhou, Y. R. Zhu & Z. H. Chen PA21043003 (paratype: ZM); Y. H. Zhou, Y. R. Zhu & Z. H. Chen PA21043004 (paratype: ZM); G. Y. Li, D. D. Ma & G. K. Chen PA21042902 (paratype: ZM); A. G. He, Z. H. Chen & J. S. Wang PA21042904 (paratype: ZM); s.coll. 7283 (paratype: PE, NAS); M. B. Deng & H. T. Wei 89020 (paratype: NAS)

CHINA (Anhui, Zhejiang*)

Evidence: morphology

Lonicera tricalysioides C. Y. Wu ex P. S. Hsu & H. J. Wang [New Recognition]

ZENG You-pai, LUO Yu-feng, YANG Qin-er. Reinstatement of *Lonicera tricalysioides* (Caprifoliaceae) as a Distinctive Species from China. *Phytotaxa* [J] 490(2): 183-190. [E] 2021: [184]. doi: 10.11646/phytotaxa.490.2.4

TYPE: Bijie Exped. 1221 (holotype: KUN; isotype: PE)

CHINA (Guizhou*, Sichuan)

IUCN: DD; **Evidence:** morphology

S: *Lonicera ligustrina* Wall. var. *pileata* (Oliv.) Franch.

Lonicera webbiana Wall. ex DC. subsp. *hemsleyana* (Kuntze) Z. H. Chen, G. Y. Li & W. Y. Xie 倒卵叶忍冬 [New Combination]

LI Gen-you, XIE Wen-yuan, WANG Jian-sheng, CHEN Feng, CHEN Zheng-hai. New Examples of Biogeographical Evolution in Migration of Southwest China-Central China-East China Flora. *Journal of Zhejiang Forestry Science and Technology* [J] 41(6): 86-90. [C] 2021: [88]. doi: 10.3969/j.issn.1001-3776.2021.06.014

TYPE: Maries s.n. (holotype: K-000396497)

CHINA (Jiangxi*, Zhejiang)

Evidence: morphology

B: *Caprifolium hemsleyanum* Kuntze

Caryophyllaceae 石竹科

Cerastium huadingense Y. F. Lu, W. Y. Xie & X. F. Jin 华顶卷耳 [New Species]

LU Yi-fei, XU Yue-liang, XIE Wen-yuan, ZHANG Hong-wei, ZHENG Zi-hong, CAI Xin, JIN Xiao-feng. Two New Species and a New Combination from Zhejiang, East China. *PhytoKeys* [J] 184: 111-126. [E] 2021: [112]. doi: 10.3897/phytokeys.184.73327

TYPE: X. F. Jin & Y. F. Lu 4583 (holotype: ZM; isotype: HTC, PE)

CHINA (Zhejiang*)

IUCN: VU; **Evidence:** morphology

Pseudostellaria wuyishanensis Xiao Luo & Q. Y. Yang [New Species]

LUO Xiao, YANG Qi-yi, ZHANG Zhe, ZHU Pan, MA Liang, CHEN Xin-yan, LIN Shu-yi, CHEN Shi-pin. *Pseudostellaria wuyishanensis*, a New Species of Caryophyllaceae from Fujian, China. *PhytoKeys* [J] 181: 21-28. [E] 2021: [22]. doi: 10.3897/phytokeys.181.67436

TYPE: X. Luo & Q. Y. Yang 20190501 (holotype: FAFU; isotype: FAFU)

CHINA (Fujian*)

IUCN: DD; **Evidence:** morphology

Celastraceae 卫矛科

Gymnosporia diversifolia Maxim. var. *inermis* Z. H. Chen & G. Y. Li 无刺裸实 [New Variety]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [95]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: Z. H. Chen & al. 910836 (holotype: ZM); Z. H. Chen & al. 910837 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Parnassia xinganensis C. Z. Gao & G. Z. Li [New Synonyms]

DAI Xiao-Song, MIN Dao-Zhang, YANG Bo, WU Ding, LI Bo. Taxonomic Note of *Parnassia* (Celastraceae) in China II: Population Surveys Reveal That *P. guilinensis* Is Conspecific to *P. xinganensis*. *PhytoKeys* [J] 172: 67-73. [E] 2021: [69]. doi: 10.3897/phytokeys.172.62749

TYPE: G. Z. Li 62923 (holotype: IBK-00185227; isotype: IBK-00200466)

CHINA (Guangxi*)

IUCN: LC; **Evidence:** morphology

S: *Parnassia guilinensis* G. Z. Li & S. C. Tang (G. Z. Li & S. C. Tang M93, holotype: IBK-00200636)

Perrottetia taronensis B. M. Barthol. & K. Armstr. [New Species]
BARTHOLOMEW Bruce, ARMSTRONG Kate E., LI Rong, FRITSCH Peter W. *Perrottetia taronensis* B. M. Barthol. & K. Armstr., sp. nov. (Dipentodontaceae), a New Species from Northwestern Yunnan Province, China and Northern Kachin State, Myanmar and a Re-examination of the Asian and Australasian Taxa of *Perrottetia*. ***PhytoKeys*** [J] 183: 67-76. [E] 2021: [68]. doi: 10.3897/phytokeys.183.71505
TYPE: Gaoligong Shan Biodiversity Survey 32394 (holotype: KUN-1418097; isotype: BRIT-478072, CAS-346898, E-01016879, GH-00288213); Dulong Jiang Investigation Team 579 (paratype: CAS, KUN); H. Li 12931 (paratype: CAS, E, MO); H. Li 15072 (paratype: CAS, KUN); H. Li 15156 (paratype: CAS, KUN); H. Li 15230 (paratype: CAS, KUN); Kate Armstrong 2983 (paratype: CAS, E, NY, RAF)
CHINA (Yunnan*); **MYANMAR**
Evidence: morphology

Colchicaceae 秋水仙科

Disporum dushanense Bo Wang bis, Ze H. Wang & Q. W. Sun [New Species]

WANG Bo, WANG Ze-huan, CHEN Chun-ling, XU Wen-fen, SUN Qing-wen. *Disporum dushanense* (Colchicaceae), a New Species from Guizhou, China. ***Phytotaxa*** [J] 528(2): 144-148. [E] 2021: [144]. doi: 10.11646/phytotaxa.528.2.8

TYPE: Bo Wang wb-202004003 (holotype: GZTM; isotype: GZTM)

CHINA (Guizhou*)

Evidence: morphology

Commelinaceae 鸭跖草科

Amischotolype microphylla (Y. Wan) C. K. Lee, Fuse & M. N. Tamura [New Combination]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

CHINA (Guangxi)

Evidence: morphology; rbcL, matK, accD sequence

B: *Porandra microphylla* Y. Wan

Amischotolype ramosa (D. Y. Hong) C. K. Lee, Fuse & M. N. Tamura [New Combination]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

CHINA (Guangxi, Guizhou, Yunnan)

Evidence: morphology; rbcL, matK, accD sequence

B: *Porandra ramosa* D. Y. Hong

Amischotolype scandens (D. Y. Hong) C. K. Lee, Fuse & M. N. Tamura [New Combination]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

CHINA (Yunnan); **LAOS, THAILAND, VIETNAM**

Evidence: morphology; rbcL, matK, accD sequence

B: *Porandra scandens* D. Y. Hong

Subtrib. Cochliostematinae (Pichon) C. K. Lee, Fuse & M. N. Tamura [New Combination]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

Evidence: morphology; rbcL, matK, accD sequence

B: Trib. Cochliostemateae Pichon

Subtrib. Commelininae C. K. Lee, Fuse & M. N. Tamura [New Subtribe]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

TYPE: *Commelina* L.

Evidence: morphology; rbcL, matK, accD sequence

Subtrib. Murdanninae C. K. Lee, Fuse & M. N. Tamura [New Subtribe]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

TYPE: *Murdannia* Royle

Evidence: morphology; rbcL, matK, accD sequence

Trib. Palisoteae (Faden & D. R. Hunt) C. K. Lee, Fuse & M. N. Tamura [New Combination]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

Evidence: morphology; rbcL, matK, accD sequence

B: Subtrib. Palisotinae Faden & D. R. Hunt

Trib. Streptoliriae (Faden & D. R. Hunt) C. K. Lee, Fuse & M. N. Tamura [New Combination]

LEE Chung-Kun, FUSE Shizuka, POOPATH Manop, POOMA Rachun, TAMURA Minoru N. Phylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). ***Botanical Journal of the Linnean Society*** [J] 198(2): 117-130. [E] 2021: [127].

Evidence: morphology; rbcL, matK, accD sequence

B: Subtrib. Streptoliriinae Faden & D. R. Hunt

Costaceae 闭鞘姜科

Hellenia deliniana Juan Chen, L. Y. Zeng & N. H. Xia 莴笋花 [New Name]

CHEN Juan, ZENG Lin-ya, ZENG Si-jin, TAN Yun-hong, XIA Nian-he. Taxonomic Studies on the Chinese Costaceae I: a New Name and Two New Combinations. ***Phytotaxa*** [J] 512(3): 159-168. [E] 2021: [163]. doi: 10.11646/phytotaxa.512.3.3

TYPE: P. I Mao 2687 (holotype: IBSC-0005266; isotype: IBSC-0002238, KUN-0335078, KUN-0335079, PE-00075117)

CHINA (Yunnan*)

Evidence: morphology

R: *Costus chinensis* T. L. Wu & S. J. Chen

Hellenia oblonga (S. Q. Tong) Juan Chen, L. Y. Zeng & N. H. Xia [**New Combination**]

CHEN Juan, ZENG Lin-ya, ZENG Si-jin, TAN Yun-hong, XIA Nian-he. Taxonomic Studies on the Chinese Costaceae I: a New Name and Two New Combinations. *Phytotaxa* [J] 512(3): 159-168. [E] 2021: [165]. doi: 10.11646/phytotaxa.512.3.3

TYPE: S. Q. Tong & C. J. Liao 24866 (holotype: KUN-1219295; isotype: KUN-1219278)

CHINA (Xizang, Yunnan*)

Evidence: morphology

B: *Costus oblongus* S. Q. Tong

Hellenia viridis (S. Q. Tong) Juan Chen, L. Y. Zeng & N. H. Xia 绿苞莴笋花 [**New Combination**]

CHEN Juan, ZENG Lin-ya, ZENG Si-jin, TAN Yun-hong, XIA Nian-he. Taxonomic Studies on the Chinese Costaceae I: a New Name and Two New Combinations. *Phytotaxa* [J] 512(3): 159-168. [E] 2021: [166]. doi: 10.11646/phytotaxa.512.3.3

TYPE: S. Q. Tong & W. D. Liao 24822 (holotype: KUN-1219281)

CHINA (Yunnan*); INDIA

Evidence: morphology

B: *Costus viridis* S. Q. Tong

Cucurbitaceae 葫芦科

Trichosanthes sunhangii D. G. Zhang, Zhi M. Li, Qun Liu & T. Deng 神农架栝楼 [**New Species**]

LIU Qun, LIN Nan, ZHANG Dai-Gui, HUANG Xian-Han, WANG Heng-Chang, YANG Jing-Yuan, TOJIBAIEV Komiljon, LV Zhen-Yu, DENG Tao, LI Zhi-Min. *Trichosanthes sunhangii* (Cucurbitaceae), a New Species from Hubei, China. *Phytotaxa* [J] 479(3): 287-294. [E] 2021: [290]. doi: 10.11646/phytotaxa.479.3.5

TYPE: D. G. Zhang & al. 20110728049 (holotype: KUN-1498246; isotype: KUN-1498247, JIU); Q. Liu gl001 (paratype: KUN); Q. Liu gl002 (paratype: KUN)

CHINA (Hubei*)

Evidence: morphology; ITS, matK, rpl20-rps12

Cyperaceae 莎草科

Bulbostylis barbata (Rottb.) C. B. Clarke [**New Synonyms**]

LI Bang-ze, ZHANG Shu-ren. A New Synonym in *Bulbostylis* (Cyperaceae) from China. *Phytotaxa* [J] 529(1): 119174-176. [E] 2021: [175]. doi: 10.11646/phytotaxa.529.1.14

TYPE: s.coll. 68 (holotype: C-1000999)

CHINA (Guangdong, Macao)

Evidence: morphology

S: *Bulbostylis eriophora* (Steud.) H. Pfeiff; *Cyperus eriophorus* Steud. (J. Decaisne s.n., holotype: P-00068170)

Carex maolanensis Y. F. Deng & Xi X. Zhang [**New Species**]

ZHANG Xi-xi, YAO Zheng-ming, MENG Hui-li, DENG Yun-fei. *Carex maolanensis* (Cyperaceae), a New Species from Guizhou, China. *Phytotaxa* [J] 525(2): 137-146. [E] 2021: [139]. doi: 10.11646/phytotaxa.525.2.4

TYPE: Y. F. Deng 27275 (holotype: IBSC); F. L. Chen & al. LB1460 (paratype: IBSC); F. L. Chen & al. LB1465 (paratype: IBSC); Y. F. Deng 21618 (paratype: IBSC); X. X. Zhang 273

(paratype: IBSC); Y. F. Deng & T. Y. Jiang 30789 (paratype: IBSC)

CHINA (Guizhou*)

IUCN: DD; **Evidence:** morphology

Schoenoplectiella monocephala (J. Q. He) J. R. Starr [**New Combination**]

STARR Julian R., JIMÉNEZ-MEJÍAS Pedro, ZUNTINI Alexandre R., LÉVEILLÉ-BOURRET Étienne, SEMMOURI Ilias, MUASYA Muthama, BAKER William J., BREWER Grace E., EPITAWALAGE Niroshini, FAIRLIE Isabel, FOREST Félix, KIKUCHI Izai A. B. Sabino, POKORNY Lisa, LARRIDON Isabel. Targeted Sequencing Supports Morphology and Embryo Features in Resolving the Classification of Cyperaceae tribe Fuireneae s.l. *Journal of Systematics and Evolution* [J] 59(4): 809-832. [E] 2021: [827]. doi: 10.1111/jse.12721

TYPE: J. Q. He & X. L. Hou 5438 (holotype: ANU)

CHINA (Anhui*)

Evidence: morphology; nrDNA

B: *Scirpus monocephalus* J. Q. He

Ebenaceae 柿树科

Diospyros kaki Thunb. var. *erythrantha* G. Y. Li, Z. H. Chen & Xiu P. Li 红花野柿 [**New Variety**]

LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [342].

TYPE: Z. H. Chen, G. Y. Li & X. P. Li NH18042712 (holotype: ZM); Z. H. Chen & al. NH18042708 (paratype: ZM); Z. H. Chen & al. NH18042714 (paratype: ZM); J. P. Wu & Y. F. Zhang XS18042201 (paratype: ZM); Y. F. Zhang & J. P. Wu XS18051201 (paratype: ZM); S. Q. Xu CX008 (paratype: ZJFR)

CHINA (Zhejiang*)

Evidence: morphology

Diospyros xylocarpa Y. M. Shui, W. H. Chen & Sima [**New Species**]

IMA Yong-kang, CHEN Wen-hong, WU Jian-yong, SHUI Yu-min. *Diospyros xylocarpa*, a New Species of Ebenaceae from China and Vietnam. *Phytotaxa* [J] 528(2): 133-138. [E] 2021: [133]. doi: 10.11646/phytotaxa.528.2.6

TYPE: Y. M. Shui, W. H. Chen & J. S. Sheng 30539 (holotype: KUN; isotype: PE, IBSC); Y. M. Shui & al. 46009 (paratype: KUN); N. M. Cuong, H. L. Quyen & M. V. Xinh 277 (paratype: CHI); N. M. Cuong, D. T. Kien & M. V. Sinh 1069 (paratype: CHI)

CHINA (Yunnan*); VIETNAM

IUCN: CR; **Evidence:** morphology

Ericaceae 杜鹃花科

Agapetes atrosanguinea Airy Shaw [**New Synonyms**]

YANG Bin, WANG Ping-yuan, TONG Yi-hua, TAN Yun-hong. Taxonomic Notes on *Agapetes* (Ericaceae) from Xizang, China: *Agapetes leiocarpa*, a New Synonym of *A. atrosanguinea*, and an Updated Description of *A. camelliifolia*. *Phytotaxa* [J] 524(2): 119-124. [E] 2021: [120]. doi: 10.11646/phytotaxa.524.2.7

TYPE: N. Rankin & S. Pretzlik 162 (holotype: BM-000752867)

CHINA (Xizang*)

Evidence: morphology

S: *Agapetes leiocarpa* S. H. Huang (B. S. Li & S. Z. Cheng 4316, holotype: PE-00196710; isotype: KUN-0034484, PE-00196711)

Agapetes heana Y. H. Tong & J. D. Ya 疆海树萝卜 [New Species]

TONG Yi-hua, BAI Ying, FENG Jian-ming, YA Ji-dong. *Agapetes heana*, a New Species of A. ser. Longifolies (Ericaceae) from Yunnan, China. *PhytoKeys* [J] 180: 133-139. [E] 2021: [134]. doi: 10.3897/phytokeys.180.69667

TYPE: J. H. He 210304 (holotype: KUN); J. D. Ya & al. 21CS20738 (paratype: KUN, IBSC)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology

Agapetes nana (Griff.) Hook. f. 腺苞树萝卜 [New Record]

WANG Li-yan, TAN Yun-hong, YANG Bin. *Agapetes nana*, a Newly Recorded Species of Ericaceae from China. *Journal of Tropical and Subtropical Botany* [J] 29(4): 409-412. [E] 2021: [410]. doi: 10.11926/jtsb.4326

TYPE: W. Griffith 26 (holotype: K-000729410)

CHINA (Yunnan); **INDIA***, **MYANMAR**

Evidence: morphology

Agapetes putaensis Y. H. Tong & N. H. Xia 葡萄树萝卜 [New Record]

YANG Bin, LI Jian-wu, LI Hai-tao, ZHOU Lu-men, TAN Yun-hong. *Agapetes putaensis*, a Newly Recorded Species of *Agapetes* (Ericaceae) from China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(5): 889-891. [E] 2021: [890]. doi: 10.7606/j.issn.1000-4025.2021.05.0889

TYPE: Ayeyarwady Exped. 2416 (holotype: IBSC; isotype: CDBI, IBSC)

CHINA (Yunnan); **MYANMAR***

Evidence: morphology

Pieris japonica (Thunb.) D. Don ex G. Don f. *rubra* F. B. Yan, G. Y. Li & Z. H. Chen 粉花马醉木 [New Form]

YAN Fu-bin, XIE Wen-yuan, WANG Jun-feng, WU Dong-hao, CHEN Xian-xing, CHEN Zheng-hai. New Materials in Flora of Zhejiang Province (III). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 80-85. [C] 2021: [85]. doi: 10.3969/j.issn.1001-3776.2021.05.013

TYPE: F. B. Yan WL21022201 (holotype: ZM; isotype: ZM); Z. H. Chen, L. Chen & M. H. Mao WX21022501 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Rhododendron kuomeianum Yu H. Chang, J. Nielsen & Y. P. Ma 国楣杜鹃 [New Species]

CHANG Yu-hang, YAO Gang, NEILSEN Jens, LIU De-tuan, ZHANG Lu, MA Yong-peng. *Rhododendron kuomeianum* (Ericaceae), a New Species from Northeastern Yunnan (China), Based on Morphological and Genomic Data. *Plant Diversity* [J] 43(5): 292-298. [E] 2021: [296]. doi: 10.1016/j.pld.2021.04.003

TYPE: Y. H. Chang, Y. P. Ma & D. T. Liu Cyh20190402 (holotype: KUN-1498888; isotype: KUN-1498889, KUN-1498890); Y. P. Ma, Y. H. Chang & J. Neilsen Ma20180603 (paratype: KUN-1498892, KUN-1498893)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; RAD-seq

Vaccinium motuoense Y. H. Tong & Y. J. Guo 墨脱越橘 [New Species]

TONG Yi-hua, ZHAO Wang-lin, WANG Bing-mou, LIU En-de, CAI Jie, GUO Yong-jie. *Vaccinium motuoense* (Ericaceae), a New Species from Xizang, China. *PhytoKeys* [J] 181: 105-111. [E] 2021: [106]. doi: 10.3897/phytokeys.181.71522

TYPE: Z. Liu & W. L. Zhao TYH-2523 (holotype: IBSC; isotype: IBSC, KUN); J. Cai, E. D. Liu & Y. J. Guo 13CS7683 (paratype: KUN); Y. H. Tong & B. M. Wang TYH-2381 (paratype: IBSC); B. S. Li & S. Z. Cheng 02486 (paratype: KUN); H. Sun, Z. K. Zhou & H. Y. Yu ETM-1145 (paratype: KUN); B. S. Li, Z. C. Ni & S. Z. Cheng 03651 (paratype: KUN); Y. H. Tong & B. M. Wang TYH-2338 (paratype: IBSC); B. S. Li, Z. C. Ni & S. Z. Cheng 04317 (paratype: KUN); B. S. Li, Z. C. Ni & S. Z. Cheng 04752 (paratype: KUN); B. S. Li, Z. C. Ni & S. Z. Cheng 02486 (paratype: KUN); H. Sun, Z. K. Zhou & H. Y. Yu ETM-4243 (paratype: KUN); B. S. Li & S. Z. Cheng 01600 (paratype: KUN, PE); H. Sun, Z. K. Zhou & H. Y. Yu ETM-4562 (paratype: KUN); H. Sun, Z. K. Zhou & H. Y. Yu ETM-4920 (paratype: KUN); H. Sun, Z. K. Zhou & H. Y. Yu ETM-2621 (paratype: KUN)

CHINA (Xizang*)

IUCN: LC; **Evidence:** morphology

Vaccinium zhangzhouense Y. H. Tong, Y. Y. Zhu & N. H. Xia [New Species]

TONG Yi-hua, ZHU Yi-yao, YE Xue-he, YE Xing-er, YANG Cheng-zi, XIA Nian-he. *Vaccinium zhangzhouense*, a New Species Endemic to Fujian, China. *Nordic Journal of Botany* [J] 39(e03091): 1-4. [E] 2021: [2]. doi: 10.1111/njb.03091

TYPE: Y. H. Tong & al. TYH-2480 (holotype: IBSC; isotype: FJFC); Y. H. Tong, Y. E. Ye & Y. Y. Zhu TYH-2481 (paratype: IBSC); Y. H. Tong, Y. E. Ye & Y. Y. Zhu TYH-2482 (paratype: IBSC)

CHINA (Fujian*)

IUCN: VU; **Evidence:** morphology

Euphorbiaceae 大戟科

Euphorbia karoi Freyn [Typification]

GELTMAN D. V. A Novelty for the Flora of China: Siberian "Endemic" *Euphorbia karoi* (Euphorbiaceae) Occurs in the South Part of Inner Mongolia. *Novitates Systematicae Plantarum Vascularium* [J] 52: 131-137. [R] 2021: [132]. doi: 10.31111/novitates/2021.52.131

TYPE: Karo 8 (lectotype: LE-01056950; isolectotype: BM-001050421, C-10011239, DAO-000424470, HBG-516224, G-00441410, GOET-003721, JE-00002883, LE-01056951, LE-01056953, LD-1213456, LD-1213516, LD-1213576, MW-0595596, P-00606736, P-00606737, P-00606739, W 1892-0003914, WU-044260)

CHINA (Nei Mongol); **RUSSIA***

IUCN: VU; **Evidence:** morphology

Euphorbia mongoliensis Min H. Li & C. H. Zhang [New Species]

ZANG Er-huan, ZHANG Ming-xu, WANG Wen-le, ZHANG Chun-hong, LI Min-hui. *Euphorbia mongoliensis* (Euphorbiaceae), a New Species from Inner Mongolia, China. *Phytotaxa* [J] 501(1): 151-161. [E] 2021: [155]. doi: 10.11646/phytotaxa.501.1.6

TYPE: M. H. Li & C. H. Zhang 150602200520001LY (holotype: PE; isotype: HMC)

CHINA (Nei Mongol*)

Evidence: morphology; ITS

Euphorbia motuogensis M. T. Li, X. Z. Lan, H. P. Deng & W. L. Cheng [New Species]

LI Man-ting, LAN Xiao-zhong, ZUO You-wei, DENG Hong-ping. *Euphorbia motuogensis* (Euphorbiaceae), a New Species from Xizang, China. *Phytotaxa* [J] 527(2): 107-116. [E] 2021: [108]. doi: 10.11646/phytotaxa.527.2.3

TYPE: M. T. Li & X. Z. Lan 542624150702036LY (holotype: SWU); M. T. Li & X. Z. Lan 542624150702037LY (paratype: SWU)

CHINA (Xizang*)

Evidence: morphology; ITS

Flueggea acicularis (Croizat) G. L. Webster 毛白饭树 [Rediscovery]

XU Song-zhi, GAN Qi-liang, FU Lian-zhong, JIANG Ming-xi, LI Zhen-yu. *Flueggea acicularis* (Phyllanthaceae), a Narrow Endemic Species Rediscovered in Central China. *PhytoKeys* [J] 172: 57-66. [E] 2021: [59]. doi: 10.3897/phytokeys.172.57217

TYPE: E. H. Wilson 3336 (holotype: A-00048778; isotype: A, GH, K, MO, US); E. H. Wilson 3335 (paratype: A, US, K); E. H. Wilson 3344 (paratype: A, K)

CHINA (Chongqing*, Hubei*)

IUCN: NT; **Evidence:** morphology

Fabaceae 豆科

Astragalus baitagensis Sanchir ex N. Ulziykh. 宝格达黄芪 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1266]. doi: 10.17520/biods.2021181

CHINA (Xinjiang); **MONGOLIA**

Evidence: morphology

Astragalus taledensis P. Yan & Huan Zhang [New Species]

ZHANG Huan, REN Shan-shan, YAN Ping. *Astragalus taledensis*, a New Species of Leguminosae from Xinjiang, China. *Phytotaxa* [J] 524(3): 199-204. [E] 2021: [199]. doi: 10.11646/phytotaxa.524.3.4

TYPE: P. Yan & Z. Z. Du 9180 (holotype: SHI; isotype: SHI); S. P. Yang & P. Yan 11455 (paratype: SHI)

CHINA (Xinjiang*)

Evidence: morphology

Astragalus verus Olivier [New Record]

SU Chun, RATHER Shabir A., WANG Shu, CHANG Zhao-yang. *Astragalus verus* (Fabaceae)—a New Record for the Flora of China. *The Journal of Japanese Botany* [J] 96(2): 119-121. [E] 2021: [119].

TYPE: G. A. Olivier & J. G. Bruguère s.n. (holotype: P-00644441)

CHINA (Xizang); **INDIA, IRAN***

Evidence: morphology

Astragalus wui M. Idrees & Zhi Yong Zhang [New Name]

IDREES Muhammad, ZHANG Zhi-yong. *Astragalus wui*, a New Replacement Name for *A. sylvaticus* Y.H. Wu (Galegeae, Papilionoideae, Fabaceae). *Phytotaxa* [J] 524(3): 210-211. [E] 2021: [210]. doi: 10.11646/phytotaxa.524.3.6

TYPE: Exped. Qinghai-Xizang Y. H. Wu 1067 (holotype: HNWP)

CHINA (Xinjiang*)

Evidence: morphology

R: *Astragalus sylvaticus* Y. H. Wu

Cercis chinensis Bunge var. *pubescens* (C. F. Wei) G. Y. Li & Z. H. Chen 短毛紫荆 [New Combination]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [94]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: R. D. Chen s.n. (holotype: IBSC)

CHINA (Jiangsu*)

Evidence: morphology

B: *Cercis chinensis* Bunge f. *pubescens* C. F. Wei

Cercis chingii Chun var. *glabrata* G. Y. Li & Z. H. Chen 无毛黄山紫荆 [New Variety]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [95]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: Z. H. Chen & al. CZH-9709 (holotype: ZM); Z. H. Chen & J. L. Li L-080 (paratype: HHBG); Z. H. Chen & al. LX170707-02 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Craspedolobium schochii Harms [Typification]

SONG Zhu-qiu, YAO Gang, JIANG Kai-wen, LIAO Jun-jie, XU Dong-xian. *Spatholobus discolor*, a New Synonym of *Craspedolobium unijugum* (Fabaceae). *Phytotaxa* [J] 489(3): 263-274. [E] 2021: [270]. doi: 10.11646/phytotaxa.489.3.3

TYPE: O. Schoch 261 (lectotype: WU-0064624; isolectotype: A-00196736, US-00003974)

CHINA (Yunnan*)

Evidence: morphology

Craspedolobium unijugum (Gagnep.) Z. Wei & Pedley [New Synonyms]

SONG Zhu-qiu, YAO Gang, JIANG Kai-wen, LIAO Jun-jie, XU Dong-xian. *Spatholobus discolor*, a New Synonym of *Craspedolobium unijugum* (Fabaceae). *Phytotaxa* [J] 489(3): 263-274. [E] 2021: [270]. doi: 10.11646/phytotaxa.489.3.3

TYPE: C. J. Spire 446 (holotype: P-01818114; isotype: P-01818115)

CHINA (Yunnan); **LAOS*, THAILAND**

Evidence: morphology

S: *Spatholobus discolor* C. F. Wei (D. D. Tao 91, holotype: KUN-1208115; isotype: HITBC-0011543, KUN-0623267)

Crudasia insignis Prain [New Synonyms]

SONG Zhu-qiu, PAN Bo, LI Bing, XU Dong-xian, LI Shi-jin. *Millettia lantsangensis* is Conspecific with *Crudasia insignis* (Fabaceae). *Phytotaxa* [J] 497(1): 29-38. [E] 2021: [57]. doi: 10.11646/phytotaxa.497.1.3

TYPE: Shaik Mokim s.n. (lectotype: K-000900334); Shaik Mokim s.n. (syntype: CAL-0000010021, K-000900335)

CHINA (Yunnan); **MYANMAR***

Evidence: morphology

S: *Millettia lantsangensis* Z. Wei; *Callerya lantsangensis* (Z. Wei) H. Sun (C. W. Wang 76171, holotype: KUN-0644549; isotype: A-00149932, LBG-00091847, NAS-00071322, PE-01432520, PE-01432521, WUK-0047429)

***Cruddasia insignis* Prain [Typification]**

SONG Zhu-qiu, PAN Bo, LI Bing, XU Dong-xian, LI Shi-jin. *Millettia lantsangensis* is Conspecific with *Cruddasia insignis* (Fabaceae). *Phytotaxa* [J] 497(1): 29-38. [E] 2021: [57]. doi: 10.11646/phytotaxa.497.1.3

TYPE: Shaik Mokim s.n. (lectotype: K-000900334); Shaik Mokim s.n. (syntype: CAL-0000010021, K-000900335)

CHINA (Yunnan); **MYANMAR***

Evidence: morphology

***Desmanthus leptophyllus* Kunth. 薄叶草合欢 [New Record]**

JUNG Ming-je. Two Newly Naturalized *Desmanthus* spp. (Fabaceae) to the Flora of Taiwan. *Taiwan Quarterly Journal of Forest Research* [J] 43(3): 159-166. [E] 2021: [160].

TYPE: A. J. A. Bonpland & F. W. H. A. von Humboldt s.n. (holotype: P-00679350)

CHINA (Taiwan); **VENEZUELA***

Evidence: morphology

***Dolichos kongkandae* Meeboonya, Ngerns. & Balslev [New Species]**

MEEBOONYA Rumrada, NGERNSAENG SARUAY Chatchai, BALSLEV Henrik. *Dolichos kongkandae* sp. nov. and Lectotypification of *D. fragrans* (Leguminosae, Papilionoideae) from Asia. *PhytoKeys* [J] 175: 55-65. [E] 2021: [56]. doi: 10.3897/phytokeys.175.57759

TYPE: R. Meeboonya & P. Yodboonplub 406 (holotype: BKF; isotype: AAU, BK)

CHINA (Yunnan); **BHUTAN, INDIA, MYANMAR, LAOS, THAILAND***

IUCN: NT; **Evidence:** morphology

***Dumasia hirsuta* Craib [New Synonyms]**

JIANG Kai-wen, CORLETT Richard T., TIAN Bin, PAN Bo. Taxonomic Notes on the Genus *Dumasia* (Fabaceae). *Phytotaxa* [J] 522(2): 109-120. [E] 2021: [110]. doi: 10.11646/phytotaxa.522.2.3

TYPE: E. H. Wilson 3483 (lectotype: K; isotype: BM)

CHINA (Chongqing, Guangdong, Guizhou, Hubei*, Hunan, Jiangxi, Shaanxi, Sichuan)

IUCN: LC; **Evidence:** morphology

S: *Dumasia hunanica* Y. K. Yang, L. H. Liu & J. K. Wu (L. H. Liu 17950, holotype: HNNU; isotype: CPU)

***Dumasia kurziana* (Predeep & M. P. Nayar) B. Pan bis, B. Tian & K. W. Jiang 滇南山黑豆 [New Combination]**

JIANG Kai-wen, CORLETT Richard T., TIAN Bin, PAN Bo. Taxonomic Notes on the Genus *Dumasia* (Fabaceae). *Phytotaxa* [J] 522(2): 109-120. [E] 2021: [115]. doi: 10.11646/phytotaxa.522.2.3

TYPE: S. Kurz 1699 (holotype: CAL; isotype: CAL); A. Henry 12453 (paratype: CAL, K); A. Henry 12872 (paratype: CAL, K)

CHINA (Yunnan); **MYANMAR***

IUCN: LC; **Evidence:** morphology

B: *Dumasia nitida* Chun ex Y. T. Wei & S. K. Lee var. *kurziana* Predeep & M. P. Nayar

***Dumasia prazeri* Predeep & M. P. Nayar 小花山黑豆 [New Record]**

JIANG Kai-wen, CORLETT Richard T., TIAN Bin, PAN Bo. Taxonomic Notes on the Genus *Dumasia* (Fabaceae). *Phytotaxa* [J] 522(2): 109-120. [E] 2021: [111]. doi: 10.11646/phytotaxa.522.2.3

TYPE: J. C. Prazer 36 (holotype: CAL; isotype: CAL)

CHINA (Yunnan); **MYANMAR***

IUCN: DD; **Evidence:** morphology

***Dumasia yunnanensis* Y. T. Wei & S. K. Lee [New Recognition]**

JIANG Kai-wen, CORLETT Richard T., TIAN Bin, PAN Bo. Taxonomic Notes on the Genus *Dumasia* (Fabaceae). *Phytotaxa* [J] 522(2): 109-120. [E] 2021: [113]. doi: 10.11646/phytotaxa.522.2.3

TYPE: H. K. Teng 171 (holotype: KUN); K. M. Feng 10401 (paratype: KUN); B. Y. Qiu 54981 (paratype: PE); P. I. Mao 156 (paratype: KUN); C. Ho 11544 (paratype: SM)

CHINA (Sichuan, Yunnan*)

IUCN: LC; **Evidence:** morphology

S: *Dumasia kurziana* (Predeep & M. P. Nayar) B. Pan bis, B. Tian & K. W. Jiang

***Erythrina stricta* Roxb. [Typification]**

KHURAIJAM Jibankumar Singh, UPADHYAY Ashutosh Kumar, GOGOI Rajib, RANA Tikam S. A Synopsis of the Genus *Erythrina* (Fabaceae) in India. *Annales Botanici Fennici* [J] 58(4-6): 275-283. [E] 2021: [277]. doi: 10.5735/085.058.0413

TYPE: Icon. Roxburgh. 2322

CHINA (Guangxi, Xizang, Yunnan); **INDIA**

Evidence: morphology

***Gleditsia saxatilis* Z. C. Lu, Y. S. Huang & Yan Liu [New Species]**

LU Zhao-cen, HUANG Zhang-ping, YANG Ping, HUANG Yu-song, LIU Yan. *Gleditsia saxatilis* (Fabaceae), a New Species from Limestone Areas of Guangxi, China Based on Morphological and Molecular Evidence. *Phytotaxa* [J] 508(2): 213-220. [E] 2021: [215]. doi: 10.11646/phytotaxa.508.2.10

TYPE: Liujiang Exped. 450221180808024LY (holotype: IBK-0430264; isotype: IBK-00430265); Z. J. Li 3150 (paratype: IBK); Nonggang Exped. 10750 (paratype: IBK); Nonggang Exped. 10803 (paratype: IBK); Zhongzhilian-Guangxi Exped. 1041 (paratype: IBK); Y. S. Huang & W. B. Xu 516 (paratype: IBK); Y. S. Huang & W. B. Xu 529 (paratype: IBK); Z. J. Li 3570 (paratype: IBK); Z. J. Li & Q. F. Yang 1562 (paratype: IBK); Dianqiangui Exped. 70009 (paratype: IBK); F. N. Wei & Y. Liu M0436 (paratype: IBK); Y. S. Huang & al. Y1296 (paratype: IBK); W. B. Xu & al. ML1147 (paratype: IBK); Y. S. Huang & al. Y1360 (paratype: IBK); W. B. Xu & al. ML1275 (paratype: IBK); Y. L. Jiang & al. 20180824001 (paratype: IBK); W. B. Xu & Y. S. Huang CZ0909 (paratype: IBK); D. R. Peng & al. 201804036 (paratype: GXF); K. W. Luo 201807065 (paratype: GXF); D. X. Nong & al. 451227190529011LY (paratype: GXMG); Liujiang Exped. 450221190404041LY (paratype: IBK); Liujiang Exped. 450221200414015LY (paratype: IBK); P. Yang LZC219 (paratype: IBK)

CHINA (Guangxi*)

Evidence: morphology; ITS, trnL-F

***Grona reticulata* (Champ. ex Benth.) H. Ohashi & K. Ohashi [New Combination]**

OHASHI Kazuaki, OHASHI Hiroyoshi, NEMOTO Tomoyuki, NATA Koji. Phylogenetic Analyses for a New Classification of the Desmodium Group of Leguminosae Tribe Desmodieae 5. Last Desmodium Native to Asia and Australia. *The Journal of Japanese Botany* [J] 96(1): 1-8. [E] 2021: [13].
TYPE: Champion 254 (lectotype: K-000858821; isolectotype: K-000858820)

CHINA (Hong Kong*)

Evidence: morphology; ITS, ETS, 5'trnK, ndhJ-trnF-trnL, trnT-trnL, trnG-trnS, trnQ-rps16, trnL-rpl32, rpl16, trnC-rpoB, ndhA
B: *Desmodium reticulatum* Champ. ex Benth.

Imbralyx leptobotrys (Dunn) Z. Q. Song [New Combination]
SONG Zhu-qiu. New Combinations and Re-lectotypification in the Genus Imbralyx (Fabaceae: Millettieae). *Phytotaxa* [J] 525(3): 223-231. [E] 2021: [228]. doi: 10.11646/phytotaxa.525.3.4
TYPE: A. Henry 12792 (lectotype: K-000898191; isolectotype: MO-203008, NY-00016342, NY-00016344, PE-00410935)

CHINA (Yunnan*)

Evidence: morphology

B: *Millettia leptobotrya* Dunn

Imbralyx leucanthus (Kurz) Z. Q. Song [Excluded from China]
SONG Zhu-qiu. New Combinations and Re-lectotypification in the Genus Imbralyx (Fabaceae: Millettieae). *Phytotaxa* [J] 525(3): 223-231. [E] 2021: [228]. doi: 10.11646/phytotaxa.525.3.4
TYPE: S. Kurz 2600 (lectotype: K-000848723; isolectotype: K-000848724, K-000848725, K-000848726)
MYANMAR*

Evidence: morphology

S: *Millettia pendula* Benth.

Indigofera spicata Forsk. 倒卵叶木蓝 [New Record]
CHIANG Yao-en, CHIANG Meng-chi, LIU Yu-ting, HSIEH Tsung-hsin. Indigofera spicata Forsk. —A Newly Naturalized Fabaceae in Taiwan. *Taiwan Journal of Biodiversity* [J] 23(3): 21-29. [C] 2021: [25].

TYPE: Forsskål s.n. (holotype: C)

CHINA (Taiwan); **YEMEN***

Evidence: morphology

Lespedeza danxiaensis Q. Fan, W. Y. Zhao & K. W. Jiang 丹霞铁马鞭 [New Species]

ZHAO Wan-yi, JIANG Kai-wen, CHEN Zai-xiong, TIAN Bin, FAN Qiang. Lespedeza danxiaensis (Fabaceae), a New Species from Guangdong, China, based on Molecular and Morphological Data. *PhytoKeys* [J] 185: 43-53. [E] 2021: [47]. doi: 10.3897/phytokeys.185.72788

TYPE: Q. Fan 18409 (holotype: SYS; isotype: IBSC, NPH, SWFC, SYS); Q. Fan 18027 (paratype: IBSC, NPH, SWFC, SYS); Q. Fan & Y. S. Huang 18130 (paratype: IBSC, NPH, SYS)
CHINA (Guangdong*)

IUCN: CR; **Evidence:** morphology; ITS

Macrotyloma axillare (E. Mey.) Verdc. 腋花硬皮豆 [New Record]

CHEN Po-hao, KU Shin-ming, CHUNG An-ching, WANG Chih-chiang, YANG Sheng-zehn. Notes on the Spread of the Genus Macrotyloma (Wight & Arn.) Verdc. (Fabaceae) in Taiwan: Description of a Newly Naturalized Species M. axillare (E. Mey.) Verdc. *Taiwan Quarterly Journal of Forest Research* [J] 43(1): 35-44. [E] 2021: [36].

CHINA (Taiwan); [AFRICA]

Evidence: morphology

Millettia puerarioides Prain 葛叶崖豆 [New Record]

SONG Zhu-qiu, PAN Bo, ZHANG Ting, TAN Yun-hong, ZHANG Yong-sheng, YANG Zu-wei, XU Dong-xian. Millettia puerarioides Prain (Fabaceae: Millettieae), a Species with Cauliflorous Inflorescences Newly Recorded from China. *Phytotaxa* [J] 507(2): 183-190. [E] 2021: [185]. doi: 10.11646/phytotaxa.507.2.6

TYPE: Geo Gallatly 531 (lectotype: K-000848744); Sulpiz Kurz 1765 (syntype: K-000848745)

CHINA (Yunnan); **MYANMAR***

Evidence: morphology

Ohashia X. Y. Zhu & R. P. Zhang [New Genus]

ZHANG Ruo-peng, HUANG Yun-feng, ZHU Xiang-yun. Ohashia, a New Genus of Derris-like Millettoid Legumes (Leguminosae, Papilionoideae) as Revealed by Molecular Phylogenetic Evidence. *Taxon* [J] 70(6): 1219-1228. [E] 2021: [1222]. doi: 10.1002/tax.12564

TYPE: *Ohashia yunnanensis* (Chun & F. C. How) X. Y. Zhu & R. P. Zhang

Evidence: morphology; trnK-matK, trnL-F, psbA-trnH, ITS

Ohashia yunnanensis (Chun & F. C. How) X. Y. Zhu & R. P. Zhang [New Combination]

ZHANG Ruo-peng, HUANG Yun-feng, ZHU Xiang-yun. Ohashia, a New Genus of Derris-like Millettoid Legumes (Leguminosae, Papilionoideae) as Revealed by Molecular Phylogenetic Evidence. *Taxon* [J] 70(6): 1219-1228. [E] 2021: [1224]. doi: 10.1002/tax.12564

TYPE: A. Henry 9386B (lectotype: IBSC-0164901)

CHINA (Guangxi, Guizhou, Yunnan*)

Evidence: morphology; trnK-matK, trnL-F, psbA-trnH, ITS

B: *Derris yunnanensis* Chun & F. C. How

Pueraria montana (Lour.) Merr. f. *alba* G. Y. Li, F. G. Zhang & Jian S. Wang 白花葛藤 [New Form]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [96]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: F. G. Zhang, G. Y. Li & J. S. Wang PJ18092305 (holotype: ZM); J. S. Wang s. n. (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Senegalia propinqua L. Bai 元江金合欢 [New Species]

LIN Bai, BRUCE Maslin, XIA Nian-he. Senegalia propinqua (Leguminosae: Mimosoideae), a New Species from the Yuanjiang Dry-hot Valley in South-central Yunnan Province, China. *Phytotaxa* [J] 522(1): 38-46. [E] 2021: [39]. doi: 10.11646/phytotaxa.522.1.4

TYPE: L. Bai & Q. Tian BLSC-029 (holotype: IBSC-0865935; isotype: GXMI, IBK, IBSC-0865933, IBSC-0865934, K, KUN, PE, PERTH, SING)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Sesbania javanica Miq. 沼生田菁 [New Record]

LI Xiao-xia, YANG Hu-biao. *Sesbania javanica* (Fabaceae), a New Record Species from Hainan, China. *Chinese Journal of Tropical Crops* [J] 42(3): 695-697. [C] 2021: [695].

CHINA (Hainan); **AUSTRALIA**

Evidence: morphology

Sophora moorcroftiana Benth. ex Baker f. *albiflora* Shi H. Yang 白花砂生槐 [New Form]

YANG Shi-hai, CIREN Wang-dui, YANG Zuo-yun, LIU Wei, LIU Yi, OU Zhu, MA Yu-shou. *Sophora moorcroftiana* f. *albiflora*, a New Form of Leguminosae from Tibet of China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(2): 336-337. [C] 2021: [336]. doi: 10.7606/j.issn.1000-4025.2021.02.0336

TYPE: S. H. Yang 2020051901 (holotype: HNWP)

CHINA (Xizang*)

Evidence: morphology

Vicia mingyueshanensis Z. Y. Xiao & X. C. Li 明月山野豌豆 [New Species]

XIAO Zhi-yong, LI Xiao-chun, LUO Ying, ZENG Chuan-sheng, QIU Bang-gui, CAO Fu-liang. *Vicia mingyueshanensis* (Fabaceae, Papilionoideae, Fabaceae), a New Species from Western Jiangxi, China. *PhytoKeys* [J] 187: 71-76. [E] 2021: [73]. doi: 10.3897/phytokeys.187.71960

TYPE: Z. Y. Xiao & X. C. Li CSFI076074 (holotype: CSFI; isotype: NF)

CHINA (Jiangxi*)

IUCN: CR; **Evidence:** morphology

Gentianaceae 龙胆科

Gentiana manshurica Kitag. 条叶龙胆 [New Synonyms]

CHEN Xiao-rong, ZHANG Fang-gang, XIE Wen-yuan, ZHANG Shui-li, CHEN Zheng-hai. Notes on the Seed Plant in Zhejiang Province (XII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 86-89. [C] 2021: [88]. doi: 10.3969/j.issn.1001-3776.2021.05.014

CHINA (Zhejiang); **JAPAN**

Evidence: morphology

S: *Gentiana manshurica* Kitag. subsp. *jiandeensis* J. P. Luo & Z. C. Lou (S. K. Jiang & S. T. Fang 2406, holotype: PEM)

Gesneriaceae 苦苣苔科

Didymocarpus cortusifolius (Hance) Lévl. f. *rubrus* W. Y. Xie, G. Y. Li & Z. H. Chen 红花温州长蒴苣苔 [New Form]

LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [343].

TYPE: X.P. Li & H. L. Lin LHL2015013 (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Gyrocheilos taishanense G. T. Wang, Yu Q. Chen & R. J. Wang [New Species]

WANG Gang-Tao, LIU Fang-Pu, JIANG Guo-Bin, ZHANG Ying, CHEN Yu-Qiang,

WANG Rui-Jiang. *Gyrocheilos taishanense*: A New Species of Gesneriaceae from Guangdong, China. *Phytotaxa* [J] 478(2): 216-224. [E] 2021: [219]. doi: 10.11646/phytotaxa.478.2.3

TYPE: G. T. Wang & al. 669 (holotype: IBSC-0855721; isotype: IBSC-0855722, KUN-1347954, PE-02331416)

CHINA (Guangdong*)

IUCN: LC; **Evidence:** morphology; ITS, trnL-F

Hemiboea gracilis Franch. var. *guixiensis* G. X. Chen, X. M. Xiang & L. Tan 鬼溪半蒴苣苔 [New Variety]

TAN Lu, XIANG Xiao-mei, LIU Bing, CHEN Gong-xi. *Hemiboea gracilis* Franch. var. *guixiensis*: a New Variety of Gesneriaceae from Hunan, China. *Journal of Jishou University (Natural Sciences Edition)* [J] 42(2): 61-64. [C] 2021: [61]. doi: 10.13438/j.cnki.jdzk.2021.02.011

TYPE: G. X. Chen & al. 20200901 (holotype: JIU)

CHINA (Hunan*)

Evidence: morphology

Henckelia connata X. Z. Shi & Li H. Yang 合柄汉克苣苔 [New Species]

SHI Xi-zuo, YANG Li-hua. *Henckelia connata* (Gesneriaceae), a New Species from Eastern Himalayas, China. *Nordic Journal of Botany* [J] 39(e03154): 1-6. [E] 2021: [2]. doi: 10.1111/njb.03154

TYPE: Li H. Yang & al. YLH1077 (holotype: IBSC-0859707; isotype: IBSC-0859708, IBSC-0859709, IBSC-0859710, IBSC-0859711, IBSC-0859712)

CHINA (Xizang*, Yunnan)

IUCN: CR; **Evidence:** morphology

Henckelia inaequalifolia Li H. Yang & X. Z. Shi 不等叶汉克苣苔 [New Species]

SHI Xi-zuo, WANG Jia-cai, YANG Li-hua. *Henckelia inaequalifolia* (Gesneriaceae), a New Species from Sichuan, China. *Phytotaxa* [J] 518(1): 54-60. [E] 2021: [54]. doi: 10.11646/phytotaxa.518.1.6

TYPE: Li H. Yang & X. Z. Shi YLH1184 (holotype: IBSC-0865764; isotype: IBSC-0865765, IBSC-0865766)

CHINA (Sichuan*)

Evidence: morphology

Litostigma napoense Y. Feng Huang, B. M. Wang & Y. S. Chen 那坡凹柱苣苔 [New Species]

CHEN You-sheng, HUANG Yun-feng, XU Lian-sheng, WANG Bing-mou. Two New Species of *Litostigma* (Gesneriaceae) from the China-Vietnam Border Area Based on Morphological and Molecular Data, Adding New Stigma Characters for the Genus. *Nordic Journal of Botany* [J] 39(e02971): 1-10. [E] 2021: [5]. doi: 10.1111/njb.02971

TYPE: Y. F. Huang & Y. Nong 79975 (holotype: GXMI; isotype: GXMI, IBSC)

CHINA (Guangxi*)

IUCN: CR; **Evidence:** morphology; ITS

Litostigma pingbianense Y. S. Chen & B. M. Wang 屏边凹柱苣苔 [New Species]

CHEN You-sheng, HUANG Yun-feng, XU Lian-sheng, WANG Bing-mou. Two New Species of *Litostigma* (Gesneriaceae) from the China-Vietnam Border Area Based on Morphological and Molecular Data, Adding New Stigma Characters for the Genus. *Nordic Journal of Botany* [J] 39(e02971): 1-10. [E] 2021: [2]. doi: 10.1111/njb.02971

TYPE: Y. S. Chen & al. PB0718 (holotype: IBSC; isotype: IBSC)

CHINA (Sichuan*)

IUCN: CR; **Evidence:** morphology; ITS

Oreocharis reticuliflora Li H. Yang & X. Z. Shi 网纹马铃苣苔 [New Species]

YANG Li-hua, SHI Xi-zuo. *Oreocharis reticuliflora* (Gesneriaceae), a New Species from Southeastern Sichuan, China. *Nordic Journal of Botany* [J] 39(e03322): 1-5. [E] 2021: [2]. doi: 10.1111/njb.03322

TYPE: L. H. Yang YLH1178 (holotype: IBSC-0865767; isotype: IBSC-0865768, IBSC-0865769, IBSC-0865770, IBSC-0865771, IBSC-0865772); X. F. Gao & al. HGX10931 (paratype: CDBI); X. F. Gao & al. HGX11332 (paratype: CDBI); X. F. Gao & al. HGX12055 (paratype: CDBI)

CHINA (Sichuan*)

Evidence: morphology

Oreocharis wenxianensis Xiao J. Liu & X. G. Sun [New Species]

LIU Xiao-juan, SUN Xue-gang. *Oreocharis wenxianensis* (Gesneriaceae), a New Species from Gansu Province, China. *Annales Botanici Fennici* [J] 58(1-3): 181-187. [E] 2021: [182]. doi: 10.5735/085.058.0120

TYPE: X. G. Sun & al. WX20160709760 (holotype: GAUF); X. G. Sun & al. WX20160818761 (paratype: GAUF)

CHINA (Gansu*)

Evidence: morphology

Petrocodon albinervius D. X. Nong & Y. S. Huang 白脉石山苣苔 [New Species]

NONG Dong-xin, HUANG Bao-you, NONG Shi-yue, HUANG Yu-song. *Petrocodon albinervius*, a New Species of Gesneriaceae from Limestone Areas in Southwestern Guangxi, China. *Taiwania* [J] 66(2): 135-140. [E] 2021: [135]. doi: 10.6165/tai.2021.66.135

TYPE: D. X. Nong & Y. S. Huang Y1219 (holotype: IBK-00425097; isotype: IBK-00425098; GXMG-G0215269); Y. S. Huang & D. X. Nong Y0663 (paratype: IBK-00425099!)

CHINA (Guangxi*)

IUCN: CR; **Evidence:** morphology; ITS

Petrocodon anoetochilus F. Wen & B. Pan 开唇石山苣苔 [New Species]

PAN Bo, DING Tao, CEN Hua-fei, HUANG Zhang-jie, MACIEJEWSKI Stephen, WEN Fang. *Petrocodon anoetochilus*, a Remarkable New Species of Gesneriaceae from Guangxi and Guizhou, Southwest China. *Novon* [J] 29: 279-286. [E] 2021: [280]. doi: 10.3417/2021616

TYPE: B. Pan & al. P964 (holotype: IBK; isotype: IBK); M. Q. Han HMQ20200815-1 (paratype: PE)

CHINA (Guangxi*, Guizhou)

IUCN: EN; **Evidence:** morphology

Petrocosmea adenophora Z. J. Huang & Z. B. Xin 金腺石蝴蝶 [New Species]

HUANG Zhang-jie, XIN Zi-bin. *Petrocosmea adenophora* (Gesneriaceae), a New Species from Yunnan, China. *Nordic Journal of Botany* [J] 39(e02944): 1-5. [E] 2021: [2]. doi: 10.1111/njb.02944

TYPE: Z. B. Xin XZB170410-03 (holotype: IBK; isotype: IBK)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology

Petrocosmea duyunensis Sheng H. Tang 都匀石蝴蝶 [New Species]

TANG Sheng-hu, YANG Jia-wen, LI Cong-rui, ZHOU Qing. *Petrocosmea duyunensis* (Gesneriaceae), a New Species from Guizhou, China. *PhytoKeys* [J] 181: 1-8. [E] 2021: [3]. doi: 10.3897/phytokeys.181.68635

TYPE: Sheng H. Tang 2021001 (holotype: IBK; isotype: CSH)

CHINA (Guizhou*)

IUCN: DD; **Evidence:** morphology

Primulina cataractarum X. L. Yu & A. Liu [New Species]

DING Cong, LIU Ang, YU Xun-lin, ZHANG Chun-ping. *Primulina cataractarum* sp. nov. (Gesneriaceae) from Limestone Landform in Southern Hunan, China. *Phytotaxa* [J] 511(1): 51-64. [E] 2021: [59]. doi: 10.11646/phytotaxa.511.1.4

TYPE: A. Liu & C. Ding JH0001 (holotype: CSFI; isotype: CSFI, HIB)

CHINA (Hunan*)

IUCN: CR; **Evidence:** morphology; ITS, trnL-F, atpB-rbcL

Primulina clausa P. W. Li & M. Kang 闭苞报春苣苔 [New Species]

LI Peng-wei, PAN Bo, HARRIS Aj, XU Wei-bin, LIU Ming-tao, KANG Ming. *Primulina clausa*, a New Species of Gesneriaceae from Northern Guangxi, China. *Phytotaxa* [J] 510(2): 187-192. [E] 2021: [188]. doi: 10.11646/phytotaxa.510.2.5

TYPE: P.W. Li LPW201606 (holotype: PE; isotype: PE, IBSC); W. B. Xu & B. Pan 11165 (paratype: IBK); P. W. Li LPW2013053 (paratype: PE); L. H. Yang & B. Pan YLH351 (paratype: IBSC); W. B. Xu & Y. S. Huang 11701 (paratype: IBK); Guanyang Expedition 450327150810001LY (paratype: IBK)

CHINA (Chongqing*)

Evidence: morphology

Primulina papillosa Z. B. Xin, W. C. Chou & F. Wen 刺疣报春苣苔 [New Species]

XIN Zi-bing, CHOU Wei-chuen, MACIEJEWSKI Stephen, FU Long-fei, WEN Fang. *Primulina papillosa* (Gesneriaceae), a New Species from limestone Areas of Guangxi, China. *PhytoKeys* [J] 177: 55-61. [E] 2021: [56]. doi: 10.3897/phytokeys.177.63878

TYPE: W. C. Chou 20200409-01 (holotype: IBK; isotype: IBK)

CHINA (Guangxi*)

IUCN: CR; **Evidence:** morphology

Primulina silaniae X. X. Bai & F. Wen 思兰报春苣苔 [New Species]

ZHANG Jin-quan, HUANG Hong, LI Mei-jun, HUANG Mei, LI Quan-yuan, ZHOU Yu-lu, CHEN Yi, WEN Fang, BAI Xin-xiang. *Primulina silaniae* sp. nov. (Gesneriaceae) from the Limestone Area of Guizhou Province, China. *PhytoKeys* [J] 185: 123-130. [E] 2021: [125]. doi: 10.3897/phytokeys.185.72099

TYPE: X. X. Bai & al. BXX20201128-01 (holotype: GZAC; isotype: GZAC, IBK); X. X. Bai & al. BXX20201122-01 (paratype: GZAC); X. X. Bai & al. BXX20210411-01 (paratype: GZAC); X. X. Bai & al. BXX20201101-01 (paratype: GZAC)

CHINA (Guizhou*)

IUCN: VU; **Evidence:** morphology

Rhynchotechum nirijuliense M. Taram & D. Borah [New Species]

TARAM M., BORAH D. *Rhynchotechum nirijuliense* (Gesneriaceae), a New Species from Northeast India. *The*

Gardens' Bulletin Singapore [J] 72(1): 125-129. [E] 2021: [126]. doi: 10.26492/gbs72(1).2020-12
TYPE: M. Taram & D. Borah 0157 (holotype: CAL; isotype: ASSAM, ARUN, E)
CHINA (Xizang*)
IUCN: DD; **Evidence:** morphology

Grossulariaceae 茶藨子科

Ribes fragrans Pall. 白花茶藨子 [New Record]
DENG Rui, ZHANG Mei-li, ZHOU Ming, ZHENG Bao-jiang. A Newly Recorded Plant of the Genus Ribes from China. **Journal of Nanjing Forestry University (Natural Sciences Edition)** [J] 45(2): 231-233. [C] 2021: [231]. doi: 10.12302/j.issn.1000-2006.202004060
CHINA (Nei Mongol); MONGOLIA, RUSSIA
Evidence: morphology

Hydrangeaceae 绣球花科

Hydrangea fistulosa (G. H. Huang & G. Hao) U. B. Deshmukh & M. B. Shende [New Combination]
DESHMUKH Umakant Bhoopati, SHENDE Mukund Bapurao. One New Combination in the Genus Hydrangea (Hydrangeaceae). **Phytotaxa** [J] 512(1): 125-126. [E] 2021: [125]. doi: 10.11646/phytotaxa.512.2.6
TYPE: G. H. Huang 160091 (holotype: IBSC; isotype: CANT)
CHINA (Guangdong*)
Evidence: morphology
B: *Dichroa fistulosa* G. H. Huang & G. Hao

Iridaceae 鸢尾科

Iris × ampliflora Y. E. Xiao, F. Y. Yu & X. F. Zhou [New Nothospecies]
XIAO Yue-e, YU Feng-yang, ZHOU Xiao-feng. A New Natural Hybrid of Iris (Iridaceae) from Chongqing, China. **PhytoKeys** [J] 174: 1-12. [E] 2021: [5]. doi: 10.3897/phytokeys.174.62306
TYPE: Y. E. Xiao XYE20140614 (holotype: CSH-0180673; isotype: CSH)
CHINA (Chongqing*)
Evidence: morphology; cpDNA; Chromosome
H: *Iris japonica* Thunb. × *Iris wattii* Baker ex Hook. f.

Lamiaceae 唇形科

Dracocephalum microphyton Y. P. Chen, Y. S. Chen & C. L. Xiang [New Species]
CHEN Ya-ping, CHEN You-sheng, XIANG Chun-lei. Dracocephalum microphyton (Lamiaceae: Nepetoideae), a New Species from South-west China. **Kew Bulletin** [J] 76(2): 287-292. [E] 2021: [290]. doi: 10.1007/S12225-021-09933-8
TYPE: Y. P. Chen & al. EM1673 (holotype: KUN; isotype: K, KUN, PE)
CHINA (Sichuan*)
IUCN: VU; **Evidence:** morphology

Dracocephalum parviflorum Nutt. 小花青兰 [New Record]
ZHANG Shu-mei, LI Ding-nan. Dracocephalum parviflorum Nutt., a Newly Recorded Exotic Species of Labiatae in China. **Plant Quarantine** [J] 35(5): 47-49. [C] 2021: [47]. doi: 10.19662/j.cnki.issn1005-2755.2020.00.041
CHINA (Liaoning); [AMERICA]
Evidence: morphology

Elsholtzia argyi Lévl. f. *alba* G. Y. Li & Z. H. Chen 白花香薷 [New Form]
LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. **Botanical Research in Ningbo** [B]: 340-345. [C] 2021: [343].
TYPE: Z. H. Chen & Y. F. Zhang XS20130626 (holotype: ZJFC)
CHINA (Zhejiang*)
Evidence: morphology

Gomphostemma chinense Oliv. f. *purpureum* Z. H. Chen & W. B. Liao 紫花锥花 [New Form]
CHEN Zhi-hui, LEE Shiou Yih, LI You-yu, CHEN Jing-rui, ZHAO Wan-yi, LIAO Wen-bo. Gomphostemma chinense f. purpureum (Lamiaceae), a New Forma Endemic to China. **Acta Phytotaxonomica & Geobotanica** [J] 72(3): 289-292. [E] 2021: [289]. doi: 10.18942/apg.202105
TYPE: Z. H. Chen, J. J. Zhang, J. X. Huang & J. A. Gong YKS-460 (holotype: SYS); Z. C. Liu, Y. L. Zou & al. YKS-857 (paratype: SYS, IBSC)
CHINA (Guangdong*)
Evidence: morphology

Hanceola yuanyangensis Y. S. Chen, C. L. Xiang & H. L. Zheng 元阳四轮香 [New Species]
CHEN You-sheng, XIANG Chun-lei, WU Jian-yong, LIAO Jun-jie, ZHENG Hai-lei. Hanceola yuanyangensis (Lamiaceae, Nepetoideae), a New Species from Yunnan, China. **Phytotaxa** [J] 480(3): 297-300. [E] 2021: [297]. doi: 10.11646/phytotaxa.480.3.10
TYPE: Y. S. Chen & al. YY0522 (holotype: IBSC; isotype: IBSC, KUN)
CHINA (Yunnan*)
IUCN: CR; **Evidence:** morphology

Isodon brevipedunculatus Y. P. Chen & C. L. Xiang 短梗香茶菜 [New Species]
CHEN Ya-ping, HUANG Cun-zhong, ZHAO Yue, XIANG Chun-lei. Molecular and Morphological Evidence for a New Species of Isodon (Lamiaceae) from Southern China. **Plant Diversity** [J] 43(1): 54-62. [E] 2021: [58]. doi: 10.1016/j.pld.2020.06.004
TYPE: Y. P. Chen & Y. Zhao EM1381 (holotype: KUN; isotype: A, K, KUN, P, PE)
CHINA (Guangdong*)
Evidence: morphology; ITS; ETS

Phlomoides burmanica (Mukerjee) Kamelin & Makhm. [New Synonyms]
ZHAO Yue, CHEN Ya-ping, LIU De-tuan, TURDIMATOVICH Turginov Orzimat, LIANG Cun-zhu, XIANG Chun-lei. The Identity of Phlomoides parrotata (Lamiaceae, Lamioideae). **Phytotaxa** [J] 524(2): 107-113. [E] 2021: [108]. doi: 10.11646/phytotaxa.524.2.5
TYPE: G. Forrest 24538 (holotype: E-00301986)
CHINA (Yunnan); BURMA*
Evidence: morphology
S: *Phlomoides parrotata* (Y. Z. Sun) Kamelin & Makhm.; *Phlomis parrotata* Y. Z. Sun (H.T. Tsai 58080, holotype: PE-00835718; isotype: IBSC-0005135, KUN-1218987, NAS-00072434, NAS-00072434, SZ-00240172)

Phlomodoides liangwangshanensis Y. Zhao, H. L. Zheng & C. L. Xiang 梁王山草糙苏 [New Species]

ZHAO Yue, CHEN Ya-ping, ZHENG Hai-lei, PENG Hua, XIANG Chun-lei. *Phlomodoides liangwangshanensis* (Lamiaceae), a New Species from Yunnan, China. *Phytotaxa* [J] 491(1): 72-78. [E] 2021: [73]. doi: 10.11646/phytotaxa.491.1.8

TYPE: Y. P. Chen & al. EM483 (holotype: KUN; isotypes: K, KUN, PE); Y. P. Chen & al. EM734 (paratype: KUN)

CHINA (Yunnan*)

Evidence: morphology

Pogostemon dielsianus Dunn [Rediscovery]

HU Guo-xiong, SU Ting, AN Ming-tai, WANG Xiao-yu. Rediscovery of *Pogostemon dielsianus* (Lamiaceae, Lamioideae), a Rare Endemic Species from Southwestern China, after One Century. *PhytoKeys* [J] 171: 61-73. [E] 2021: [66]. doi: 10.3897/phytokeys.171.60389

TYPE: G. Forrest 875 (lectotype: E-00087126; isoelectotype: K-000249619)

CHINA (Yunnan*)

Evidence: morphology

Pogostemon monticola T. C. Hsu, S. W. Chung, S. H. Liu & W. J. Huang 深山刺蕊草 [New Species]

LIU Shih-hui, HSU Tian-chuan, HUANG Wei-jie, CHUNG Shih-wen. *Pogostemon monticola* (Lamiaceae; Lamioideae), a New Species from Taiwan. *Phytotaxa* [J] 507(1): 51-66. [E] 2021: [57]. doi: 10.11646/phytotaxa.507.1.2

TYPE: S. W. Chung 14416 (holotype: TAI; isotype: HAST); T. C. Hsu 4605 (paratype: TAI); P. F. Lu 20968 (paratype: TAI-372376); T. Suzuki ST20884 (paratype: TAI-097028); M. J. Jung y121703 (paratype: TAI-273576); M. S. Chen 10 (paratype: HAST-24083); T. C. Hsu 5180 (paratype: TAI-387771, TAI-387772); T. Suzuki ST21576 (paratype: TAI-097021)

CHINA (Taiwan*)

IUCN: NT; **Evidence:** morphology; ITS, matK, rbcL, rps16, trnH-psbA, trnL

Salvia bowleyana Dunn f. *alba* G. Y. Li, W. Y. Xie & D. D. Ma 白花南丹参 [New Form]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [96]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: D. D. Ma & al. s.n. (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Salvia subviolacea Y. K. Wei & Pendry 川藏鼠尾草 [New Species]

WEI Yu-kun, PENDRY C. A., HUANG Yan-bo, GE Bin-jie, XIAO Han-wen. *Salvia subviolacea*, a New Species from the Himalayas-Hengduan Mountains, China. *Edinburgh Journal of Botany* [J] 78(334): 1-9. [E] 2021: [2]. doi: <https://doi.org/10.24823/EJB.2021.334>

TYPE: Y. K. Wei, H. Xu & Y. B. Huang S0617 (holotype: CSH-0042695; isotype: CSH, E)

CHINA (Sichuan*, Xizang)

Evidence: morphology

Scutellaria fujianensis Z. H. Chen, W. Y. Xie & X. Z. Chen 腺毛黄芩 [New Name] nom. superfl.

LI Gen-you, CHEN Xian-zhi, XIE Wen-yuan, LEI Zu-pei, CHEN Zheng-hai. New Notes on Seed Plant in East China. *Journal of Zhejiang Forestry Science and Technology* [J] 41(4): 82-85. [C] 2021: [84]. doi: 10.3969/j.issn.1001-3776.2021.04.013

TYPE: S. B. Zhou 95407 (holotype: ANUB; isotype: KUN)

CHINA (Fujian*)

Evidence: morphology

R: *Scutellaria adenotricha* X. H. Guo & S. B. Zhou

Sinopogonantha setulosa (C. Y. Wu & H. W. Li) H. W. Zhang & X. F. Jin 小刺毛髯药草 [New Combination]

LU Yi-fei, XU Yue-liang, XIE Wen-yuan, ZHANG Hong-wei, ZHENG Zi-hong, CAI Xin, JIN Xiao-feng. Two New Species and a New Combination from Zhejiang, East China. *PhytoKeys* [J] 184: 111-126. [E] 2021: [116]. doi: 10.3897/phytokeys.184.73327

TYPE: R. H. Shan & X. Wu 2226 (holotype: NAS-00072429)

CHINA (Anhui*, Zhejiang)

Evidence: morphology

B: *Paraphlomis setulosa* C. Y. Wu & H. W. Li

Teucrium qingyuanense D. L. Chen, Y. L. Xu & B. Y. Ding 庆元香科科 [New Species]

CHEN De-liang, JIN Xiao-feng, XU Yue-liang, DING Bing-yang. *Teucrium qingyuanense*, a New Species of Lamiaceae from Zhejiang, China. *Guihaia* [J] 41(4): 4-9. [C] 2021: [6]. doi: 10.11931/guihaia.gxzw202001030

TYPE: Y. L. Xu & al. Xu725 (holotype: ZM; isotypes: PE, HTC, ZM)

CHINA (Zhejiang*)

Evidence: morphology; ITS

Lardizabalaceae 木通科

Akebia trifoliata (Thunb.) Koidz. f. *dapanshanensis* G. Y. Li & Zi L. Chen 绿花三叶木通 [New Form]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [96]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: G. Y. Li & al. DPS14041406 (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Lauraceae 樟科

Beilschmiedia atrata C. K. Allen [Typification]

DE KOK Rogier P.J. A Revision of *Beilschmiedia* (Lauraceae) for Thailand and Indochina. *Thai Forest Bulletin* [J] 49(1): 1-26. [E] 2021: [17]. doi: 10.20531/tfb.2021.49.1.01

TYPE: Tsang & Fung 693 (lectotype: A-00041176!; isoelectotype: A-00041177, BM-000950886, E-00386452, K-000768620, L-0035576, MO-247063, P-00745641)

CHINA (Hainan*)

Evidence: morphology

Beilschmiedia percoriacea C. K. Allen [New Synonyms]

DE KOK Rogier P.J. A Revision of *Beilschmiedia* (Lauraceae) for Thailand and Indochina. *Thai Forest Bulletin* [J] 49(1): 1-26. [E] 2021: [15]. doi: 10.20531/tfb.2021.49.1.01

TYPE: How 72964 (holotype: A-00041189; isotype: BM, MO - 247295, P-00745643)
CHINA (Guangxi, Hainan*, Yunnan); MYANMAR, THAILAND, VIETNAM
IUCN: LC; **Evidence:** morphology
S: *Beilschmiedia glauca* S. K. Lee & L. F. Lau (Hainan Exped. 676, holotype: HSNU; isotype: PE-00188583)

Beilschmiedia percoriacea C. K. Allen var. *glaucoides* (H. W. Li) de Kok [New Combination]
DE KOK Rogier P.J. A Revision of *Beilschmiedia* (Lauraceae) for Thailand and Indochina. *Thai Forest Bulletin* [J] 49(1): 1-26. [E] 2021: [16]. doi: 10.20531/tfb.2021.49.1.01
TYPE: Wang 636 (holotype: HK; isotype: PE-00188582, PE-00188584, PE-00935835)
CHINA (Yunnan*); THAILAND
IUCN: EN; **Evidence:** morphology
B: *Beilschmiedia glauca* S. K. Lee & L. F. Lau var. *glaucoides* H. W. Li

Lindera reflexa Hemsl. f. *melanocarpa* Z. H. Chen & G. Y. Li 黑果山柃 [New Form]
CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [96]. doi: 10.3785/j.issn.1008-9497.2021.01.013
TYPE: Z. H. Chen, J. S. Wang & Y. R. Zhu WY18080106 (holotype: ZM)
CHINA (Zhejiang*)
Evidence: morphology

Lindera reflexa Hemsl. f. *xanthocarpa* G. Y. Li & Z. H. Chen 黄果山柃 [New Form]
CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [96]. doi: 10.3785/j.issn.1008-9497.2021.01.013
TYPE: G. Y. Li & al. ZX20110901 (holotype: ZM)
CHINA (Zhejiang*)
Evidence: morphology

Litsea cubeba (Lour.) Pers. f. *rubra* G. Y. Li, Z. H. Chen & H. D. Li 红果山鸡椒 [New Form]
LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [343].
TYPE: H. D. Li, G. Y. Li & Z. H. Chen YY20120254 (holotype: ZJFC)
CHINA (Zhejiang*)
Evidence: morphology

Phoebe jinpingensis Bing Liu, Y. Yang, W. Y. Jin & Zhi Yang [New Species]
YANG Zhi, JIN Wei-yin, LIU Bing, FERGUSON David Kay, YANG Yong. Big Fruits with Tiny Tepals: An Unusual New Species of Lauraceae from Southwestern China. *PhytoKeys* [J] 179: 129-143. [E] 2021: [132]. doi: 10.3897/phytokeys.179.62050

TYPE: B. Liu, Y. Yang, Q. W. Lin, L. Jiang & X. J. Li 2050 (holotype: PE; isotype: PE)
CHINA (Yunnan*)
IUCN: CR; **Evidence:** morphology; nrITS, LEAFY, matK

Lentibulariaceae 狸藻科

Utricularia lihengiae C. L. Long & Z. Cheng 李恒挖耳草 [New Species]
CHENG Zhuo, FANG Qiong, WANG Fei, LONG Chun-lin. *Utricularia lihengiae* (Lentibulariaceae), a New Species from Northwest Yunnan, China. *PhytoKeys* [J] 177: 17-24. [E] 2021: [19]. doi: 10.3897/phytokeys.177.63346
TYPE: C. L. Long & Z. Cheng DXH066 (holotype: KUN; isotype: KUN)
CHINA (Yunnan*)
IUCN: CR; **Evidence:** morphology

Liliaceae 百合科

Lilium leichtlinii Hook. f. subsp. *maximowiczii* (Regel) J. Compton [New Combination]
COMPTON James A. *Lilium leichtlinii* subsp. *maximowiczii* (Regel) J. Compton (Liliaceae): a New Combination for Maximowicz's Orange Lily. *PhytoKeys* [J] 174: 81-93. [E] 2021: [90]. doi: 10.3897/phytokeys.174.62059
TYPE: C. J. Maximowicz s.n. (lectotype: LE-01072027); C. J. Maximowicz s.n. (syntype: LE-01072026)
CHINA (Hebei, Jilin, Liaoning, Shaanxi); JAPAN*, KOREA, RUSSIA
Evidence: morphology
B: *Lilium maximowiczii* Regel

Lilium leichtlinii Hook. f. subsp. *maximowiczii* (Regel) J. Compton [Typification]
COMPTON James A. *Lilium leichtlinii* subsp. *maximowiczii* (Regel) J. Compton (Liliaceae): a New Combination for Maximowicz's Orange Lily. *PhytoKeys* [J] 174: 81-93. [E] 2021: [90]. doi: 10.3897/phytokeys.174.62059
TYPE: C. J. Maximowicz s.n. (lectotype: LE-01072027); C. J. Maximowicz s.n. (syntype: LE-01072026)
CHINA (Hebei, Jilin, Liaoning, Shaanxi); JAPAN*, KOREA, RUSSIA
Evidence: morphology

Lilium sect. *Bakeriana* S. T. Watan. & M. N. Tamura [New Section]
WATANABE Seitā T., HAYASHI Kazuhiko, ARAKAWA Katsuro, FUSE Shizuka, NAGAMASU Hidetoshi, IKEDA Hiroshi, KUYAMA Atsushi, SUKSATHAN Piyakaset, POOPATH Manop, POOMA Rachun, YANG Yong-ping, TAMURA Minoru N. Biosystematic Studies on *Lilium* (Liliaceae) I. Phylogenetic Analysis Based on Chloroplast and Nuclear DNA Sequences and a Revised Infrageneric Classification. *Acta Phytotaxonomica & Geobotanica* [J] 72(3): 179-204. [E] 2021: [200]. doi: 10.18942/apg.202107
TYPE: *Lilium bakerianum* Collett & Hemsl.
CHINA (Sichuan, Guizhou, Yunnan); MYANMAR, THAILAND
Evidence: morphology; ITS, ETS, trnK, petA-psbJ, trnH-psbA, atpF-atpH, atpB-rbcL, trnS-trnG, rps16, trnL-trnL-trnF, rpl16, rpl32-trnL

Lilium sect. *Ecristata* (Balf. f.) S. T. Watan. & M. N. Tamura [New Combination]

WATANABE Seita T., HAYASHI Kazuhiko, ARAKAWA Katsuro, FUSE Shizuka, NAGAMASU Hidetoshi, IKEDA Hiroshi, KUYAMA Atsushi, SUKSATHAN Piyakaset, POOPATH Manop, POOMA Rachun, YANG Yong-ping, TAMURA Minoru N. Biosystematic Studies on Lilium (Liliaceae) I. Phylogenetic Analysis Based on Chloroplast and Nuclear DNA Sequences and a Revised Infrageneric Classification. *Acta Phytotaxonomica & Geobotanica* [J] 72(3): 179-204. [E] 2021: [200]. doi: 10.18942/apg.202107

TYPE: *Lilium saluenense* (Balf. f.) S. Yun Liang

CHINA (Sichuan, Xizang, Yunnan); MYANMAR

Evidence: morphology; ITS, ETS, trnK, petA-psbJ, trnH-psbA, atpF-atpH, atpB-rbcL, trnS-trnG, rps16, trnL-trnL-trnF, rpl16, rpl32-trnL

B: *Nomocharis* sect. *Ecristata* Balf. f.

Lilium sect. *Japonica* (Baranova) S. T. Watan. & M. N. Tamura [New Combination]

WATANABE Seita T., HAYASHI Kazuhiko, ARAKAWA Katsuro, FUSE Shizuka, NAGAMASU Hidetoshi, IKEDA Hiroshi, KUYAMA Atsushi, SUKSATHAN Piyakaset, POOPATH Manop, POOMA Rachun, YANG Yong-ping, TAMURA Minoru N. Biosystematic Studies on Lilium (Liliaceae) I. Phylogenetic Analysis Based on Chloroplast and Nuclear DNA Sequences and a Revised Infrageneric Classification. *Acta Phytotaxonomica & Geobotanica* [J] 72(3): 179-204. [E] 2021: [200]. doi: 10.18942/apg.202107

TYPE: *Lilium japonicum* Thunb. ex Houtt.

CHINA (Anhui, Jiangxi, Hunan, Guangxi, Taiwan, Zhejiang); JAPAN

Evidence: morphology; ITS, ETS, trnK, petA-psbJ, trnH-psbA, atpF-atpH, atpB-rbcL, trnS-trnG, rps16, trnL-trnL-trnF, rpl16, rpl32-trnL

B: *Lilium* subsect. *Japonica* Baranova

Linaceae 亚麻科

Linum medium (Planch.) Britton 北美黄亚麻 [New Record]

ZHENG Zi-hong, CHEN Feng, CHEN Jian-bo, XIE Wen-yuan, CHEN Zheng-hai, LI Gen-you. New Naturalized Plants in Zhejiang Province. *Journal of Zhejiang Forestry Science and Technology* [J] 41(6): 91-94. [C] 2021: [92]. doi: 10.3969/j.issn.1001-3776.2021.06.015

CHINA (Zhejiang); [AMERICA]

Evidence: morphology

Loganiaceae 马钱科

Mitreola bullata Y. S. Chen & J. J. Liao 泡叶度量草 [New Species]

LIAO Jun-jie, CHEN You-shen. *Mitreola bullata* sp. nov. (Loganiaceae), a New Species from Yunnan, China. *Phytotaxa* [J] 487(2): 181-184. [E] 2021: [181]. doi: 10.11646/phytotaxa.487.2.10

TYPE: Y. S. Chen & al. YY1118 (holotype: IBSC; isotype: KUN, PE); Y. S. Chen & al. YY1054 (paratype: IBSC)

CHINA (Yunnan*)

IUCN: CR; Evidence: morphology

Mitreola lincangensis Z. J. Mu, Z. J. Shan & B. Pan [New Species]

SHAN Zhang-jian, LI Rui-nian, PAN Bo, MU Ze-jing, CAO Lan, HOU Zhao-qiang, DU Xiao-lang. *Mitreola lincangensis* (Loganiaceae, Loganioideae), a New Species from Yunnan, China. *Pakistan Journal of Botany* [J] 53(1): 155-159. [E] 2021: [155]. doi: 10.30848/PJB2021-1(23)

TYPE: R. N. Li & Z. Q. Hou JXCM20180323001 (holotype: JXCM; isotype: JXCM, PE)

CHINA (Yunnan*)

IUCN: CR; Evidence: morphology

Lythraceae 千屈菜科

Lythrum hyssopifolia L. 神香草叶千屈菜 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1267]. doi: 10.17520/biods.2021181

CHINA (Xinjiang); KAZAKHSTAN

Evidence: morphology

Magnoliaceae 木兰科

Magnolia amoena W. C. Cheng f. *alba* H. L. Lin & G. Y. Li 白花天目木兰 [New Form]

LI Gen-you, WANG Jun-feng, XIE Wen-yuan, ZHANG Fen-yao, MEI Xu-dong, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (VIII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(1): 40-46. [C] 2021: [44]. doi: 10.3969/j.issn.1001-3776.2021.01.006

TYPE: H. L. Lin BL2016025 (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Magnolia amoena W. C. Cheng f. *purpurascens* F. Y. Zhang & X. Y. Ye 紫花天目木兰 [New Form]

LI Gen-you, WANG Jun-feng, XIE Wen-yuan, ZHANG Fen-yao, MEI Xu-dong, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (VIII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(1): 40-46. [C] 2021: [43]. doi: 10.3969/j.issn.1001-3776.2021.01.006

TYPE: F. Y. Zhang & X. Y. Ye LA2014006 (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

Michelia retusa Qing L. Wang, Y. H. Tong & N. H. Xia [New Species]

WANG Qing-long, TONG Yi-hua, WANG Zhu-nian, XIA Nian-he. *Michelia retusa* (Magnoliaceae), a Critically Endangered New Species from Hainan, China. *Nordic Journal of Botany* [J] 39(e03049): 1-5. [E] 2021: [2]. doi: 10.1111/njb.03049

TYPE: Q. L. Wang 20200518038 (holotype: IBSC; isotype: IBSC, ATCH); Q. L. Wang 20201007002 (paratype: IBSC, ATCH)

CHINA (Hainan*)

IUCN: CR; Evidence: morphology

Michelia taishanensis Y. H. Tong, X. E. Ye, X. H. Ye & Yu Q. Chen 台山含笑 [New Species]

YE Xing-er, YE Xue-he, CHEN Yu-qiang, LIU Yue-yao, TONG Yi-hua. *Michelia taishanensis* Y. H. Tong, X. E. Ye, X. H. Ye & Yu Q. Chen (Magnoliaceae), a New Species from Guangdong. *Journal of Tropical and Subtropical Botany* [J] 29(4): 413-416. [E] 2021: [414]. doi: 10.11926/jtsb.4359

TYPE: Taishan Exped. 440181190321027LY (holotype: IBSC; isotype: IBSC); N. H. Xia & al. TYH-1720 (paratype: IBSC)
CHINA (Guangdong*)
Evidence: morphology

Malvaceae 锦葵科

Sida mysorensis Wight & Arn. [Typification]

NIMBALKAR V. V., TAMBDE G. M., SARDESAI M. M. Lectotypification of Six Names in the Genus *Sida* (Malvaceae). *Rheedeia* [J] 31(2): 96-100. [E] 2021: [96]. doi: 10.22244/rheedeia.2021.31.02.12
TYPE: Heyne 183 (lectotype: K-000659370; isotype: K000659371)

CHINA (Guangdong, Guangxi, Hainan, Taiwan, Yunnan); **INDIA***

Evidence: morphology

Mazaceae 通泉草科

Mazus fruticosus Bo Li, D. G. Zhang & C. L. Xiang 灌状通泉草 [New Species]

XIANG Chun-lei, PAN Hong-li, MIN Dao-zhang, ZHANG Dai-gui, ZHAO Fei, LIU Bing, LI Bo. Rediscovery of *Mazus lanceifolius* Reveals a New Genus and a New Species in Mazaceae. *PhytoKeys* [J] 171: 1-24. [E] 2021: [9]. doi: 10.3897/phytokeys.171.61926

TYPE: D. G. Zhang zdg6673 (holotype: JIU)

CHINA (Hubei*)

Evidence: morphology; matK, rbcL, rps16, trnL-trnF, nrITS

Puchiumazus Bo Li, D. G. Zhang & C. L. Xiang 补求草属 [New Genus]

XIANG Chun-lei, PAN Hong-li, MIN Dao-zhang, ZHANG Dai-gui, ZHAO Fei, LIU Bing, LI Bo. Rediscovery of *Mazus lanceifolius* Reveals a New Genus and a New Species in Mazaceae. *PhytoKeys* [J] 171: 1-24. [E] 2021: [6]. doi: 10.3897/phytokeys.171.61926

TYPE: *Puchiumazus lanceifolius* (Hemsl.) Bo Li, D. G. Zhang & C. L. Xiang

Evidence: morphology; matK, rbcL, rps16, trnL-trnF, nrITS

Puchiumazus lanceifolius (Hemsl.) Bo Li, D. G. Zhang & C. L. Xiang 补求草 [New Combination]

XIANG Chun-lei, PAN Hong-li, MIN Dao-zhang, ZHANG Dai-gui, ZHAO Fei, LIU Bing, LI Bo. Rediscovery of *Mazus lanceifolius* Reveals a New Genus and a New Species in Mazaceae. *PhytoKeys* [J] 171: 1-24. [E] 2021: [8]. doi: 10.3897/phytokeys.171.61926

TYPE: A. Henry 5837 (lectotype: K-001079356)

CHINA (Hubei*)

Evidence: morphology; matK, rbcL, rps16, trnL-trnF, nrITS

B: *Mazus lanceifolius* Hemsl.

Puchiumazus lanceifolius (Hemsl.) Bo Li, D. G. Zhang & C. L. Xiang 补求草 [Rediscovery]

XIANG Chun-lei, PAN Hong-li, MIN Dao-zhang, ZHANG Dai-gui, ZHAO Fei, LIU Bing, LI Bo. Rediscovery of *Mazus lanceifolius* Reveals a New Genus and a New Species in Mazaceae. *PhytoKeys* [J] 171: 1-24. [E] 2021: [8]. doi: 10.3897/phytokeys.171.61926

TYPE: A. Henry 5837 (lectotype: K-001079356)

CHINA (Hubei*)

Evidence: morphology; matK, rbcL, rps16, trnL-trnF, nrITS

Puchiumazus lanceifolius (Hemsl.) Bo Li, D. G. Zhang & C. L. Xiang 补求草 [Typification]

XIANG Chun-lei, PAN Hong-li, MIN Dao-zhang, ZHANG Dai-gui, ZHAO Fei, LIU Bing, LI Bo. Rediscovery of *Mazus lanceifolius* Reveals a New Genus and a New Species in Mazaceae. *PhytoKeys* [J] 171: 1-24. [E] 2021: [8]. doi: 10.3897/phytokeys.171.61926

TYPE: A. Henry 5837 (lectotype: K-001079356)

CHINA (Hubei*)

Evidence: morphology

Melastomataceae 野牡丹科

Phyllagathis chongzuoensis Zhe Zhang, S. W. Yao & S. Jin Zeng 崇左锦香草 [New Species]

ZHANG Zhe, TU Xiong-de, YAO Shi-wei, MA Liang, ZENG Si-jin. *Phyllagathis chongzuoensis* (Melastomataceae), a New Species from Guangxi, China. *Phytotaxa* [J] 527(3): 191-200. [E] 2021: [195]. doi: 10.11646/phytotaxa.527.3.3

TYPE: Zhe Zhang, S. W. Yao & F. Sun ZZ0823 (holotype: FJFC; isotype: NPH, IBSC)

CHINA (Guangxi*)

Evidence: morphology; nrITS

Phyllagathis elegans Hai L. Chen, Yan Liu & Ying Liu [New Species]

CHEN Hai-ling, NONG Shi-yue, LIU Yan, LIU Ying. A New Species of *Phyllagathis* (Sonerileae, Melastomataceae) from Guangxi, China. *Phytotaxa* [J] 509(2): 225-232. [E] 2021: [225]. doi: 10.11646/phytotaxa.509.2.5

TYPE: H. L. Chen & al. JHC343 (holotype: IBK; isotype: A, IBSC, PE)

CHINA (Guangxi*)

IUCN: EN; **Evidence:** morphology

Phyllagathis impressinervia Y. L. Su, Yan Liu & Ying Liu [New Species]

SU Yu-lan, LIU Yan, LIU Ying. A New Species of *Phyllagathis* (Melastomataceae, Sonerileae) from Guangxi, China. *Phytotaxa* [J] 500(2): 117-124. [E] 2021: [117]. doi: 10.11646/phytotaxa.500.2.4

TYPE: Y. L. Su & Y. Qin QYLS081 (holotype: IBK; isotype: A, IBSC, PE)

CHINA (Guangxi*)

IUCN: VU; **Evidence:** morphology

Tigridiopalma exalata S. Jin Zeng, Y. C. Xu & D. F. Cui 惠州虎颜花 [New Species]

ZENG Si-jin, XU Ye-chun, WANG Gang-tao, JIA Peng, CUI Da-fang. *Tigridiopalma exalata*, a New and Endangered Species of Melastomataceae from China. *PhytoKeys* [J] 176: 33-42. [E] 2021: [37]. doi: 10.3897/phytokeys.176.63619

TYPE: S. Jin Zeng 982 (holotype: IBSC; isotype: CANT, KUN, PE); S. Jin Zeng 397 (paratype: CANT, IBSC)

CHINA (Guangdong*)

IUCN: EN; **Evidence:** morphology; nrITS, ndhF, rpl16

Tigridiopalma longmenensis Hui F. Wang, H. L. Cao & H. G. Ye [New Species]

WANG Hui-feng, WANG Zheng-feng, QIN Qiao-mei, CAO Hong-lin, GUO Xiao-ming. *Tigridiopalma longmenensis* (Melastomataceae), a New Species from Guangdong, China.

Phytotaxa [J] 500(3): 241-247. [E] 2021: [244]. doi: 10.11646/phytotaxa.500.3.8
TYPE: H. F. Wang, H. L. Cao & H. G. Ye 20200912001 (holotype: IBSC-0858304; isotype: IBSC-0858305, IBSC-0858306)
CHINA (Guangdong*)
IUCN: EN; **Evidence:** morphology; chloroplast genome

Moraceae 桑科

Fatoua Gaudich. [New Synonyms]

FENG Hui-zhe, MENG Kai-kai, WANG Long-yuan. The Identities of *Capsulea* and *C. bashanensis*. **Phytotaxa** [J] 497(1): 57-58. [E] 2021: [57]. doi: 10.11646/phytotaxa.497.1.7
TYPE: *Capsulea bashanensis* Yong Wang tetrakis
Evidence: morphology
S: *Capsulea* Yong Wang tetrakis

Fatoua villosa (Thunb.) Nakai [New Synonyms]

FENG Hui-zhe, MENG Kai-kai, WANG Long-yuan. The Identities of *Capsulea* and *C. bashanensis*. **Phytotaxa** [J] 497(1): 57-58. [E] 2021: [57]. doi: 10.11646/phytotaxa.497.1.7
TYPE: Thunberg s.n. (holotype: UPS-V-135729)
CHINA (Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hebei, Henan, Hubei, Jiangsu, Jiangxi, Taiwan, Yunnan, Zhejiang); **JAPAN***
Evidence: morphology
S: *Capsulea bashanensis* Yong Wang tetrakis (Y. Wang 16098, holotype: HZTC; isotype: PE)

Ficus pumila L. var. *ellipsoidea* W. C. Cheng 爱玉子 [New Synonyms]

LI Gen-you, CHEN Xian-zhi, XIE Wen-yuan, LEI Zu-pei, CHEN Zheng-hai. New Notes on Seed Plant in East China. **Journal of Zhejiang Forestry Science and Technology** [J] 41(4): 82-85. [C] 2021: [83]. doi: 10.3969/j.issn.1001-3776.2021.04.013
TYPE: S. Chen 3564 (lectotype: PE-00023071; isolectotype: PE-00734086, IBSC-0373559, NAS-00070407)
CHINA (Taiwan, Zhejiang*)
Evidence: morphology
S: *Ficus pumila* L. var. *awkeotsang* (Makino) Corner; *Ficus awkeotsang* Makino

Ficus thunbergii Maxim. 海岛藤 [New Synonyms]

LI Gen-you, XIE Wen-yuan, CHEN Feng, ZHANG Fen-yao, CHEN Gao-kun, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (XI). **Journal of Zhejiang Forestry Science and Technology** [J] 41(4): 77-81. [C] 2021: [77]. doi: 10.3969/j.issn.1001-3776.2021.04.012
TYPE: C. J. Maxim s.n. (isotype: BM-000951726); C. J. Maxim s.n. (syntype: P-06845976)
CHINA (Zhejiang); **JAPAN***
Evidence: morphology
S: *Ficus pumila* L. var. *microcarpa* G. Y. Li & Z. H. Chen (G. Y. Li & al. PT0909082, holotype: ZJFC)

Oleaceae 木樨科

Jasminum lang Gagnep. [Typification]

QUANG Bui Hong, CHOUDHARY Ritesh Kumar, LEE Joongku. Nomenclatural Notes and Typification of Nine Names Related to *Jasminum* (Oleaceae). **PhytoKeys** [J] 183: 55-65. [E] 2021: [59]. doi: 10.3897/phytokeys.183.69858

TYPE: H. F. Bon 2869 (lectotype: P-00640614; isolectotype: K-000901460); H. F. Bon 2604 (syntype: P-00640615); Poilane 6867 (syntype: K, VNM-00021039)

CHINA (Guangxi, Yunnan); **VIETNAM***

Evidence: morphology

Jasminum pierreanum Gagnep. [Typification]

QUANG Bui Hong, CHOUDHARY Ritesh Kumar, LEE Joongku. Nomenclatural Notes and Typification of Nine Names Related to *Jasminum* (Oleaceae). **PhytoKeys** [J] 183: 55-65. [E] 2021: [61]. doi: 10.3897/phytokeys.183.69858

TYPE: L. Pierre 2828 (lectotype: P-00640601; isolectotype: P-00640600, VNM-00021049); L. Pierre s.n. (syntype: P-00644300)
CHINA (Hainan); **CAMBODIA, VIETNAM***

Evidence: morphology

Jasminum rufohirtum Gagnep. [Typification]

QUANG Bui Hong, CHOUDHARY Ritesh Kumar, LEE Joongku. Nomenclatural Notes and Typification of Nine Names Related to *Jasminum* (Oleaceae). **PhytoKeys** [J] 183: 55-65. [E] 2021: [62]. doi: 10.3897/phytokeys.183.69858

TYPE: Pételot 5032 (lectotype: P-00644294; isolectotype: P-00644295, NY-00297220)

CHINA (Yunnan); **VIETNAM***

Evidence: morphology

Jasminum sinense Hemsl. [Typification]

QUANG Bui Hong, CHOUDHARY Ritesh Kumar, LEE Joongku. Nomenclatural Notes and Typification of Nine Names Related to *Jasminum* (Oleaceae). **PhytoKeys** [J] 183: 55-65. [E] 2021: [62]. doi: 10.3897/phytokeys.183.69858

TYPE: A. Henry 4464 (lectotype: K-000901325; isolectotype: K-000901323); A. Henry 2106 (syntype: K-000901324, US-00112856); Ford 114 (syntype: K-000901326, P-00640606, P-00640607, IBSC-0002797)

CHINA (Guangdong, Hubei*); **VIETNAM**

Evidence: morphology

Ligustrum compactum (Wall. ex G. Don) Hook. f. & Thomson ex Brandis var. *latifolium* W. C. Cheng 落叶女贞 [New Synonyms]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). **Journal of Zhejiang University (Science Edition)** [J] 48(1): 93-99. [C] 2021: [94]. doi: 10.3785/j.issn.1008-9497.2021.01.013

CHINA (Jiangsu)

Evidence: morphology

S: *Ligustrum lucidum* W. T. Aiton f. *latifolium* (W. C. Cheng) P. S. Hsu; *Ligustrum lucidum* W. T. Aiton var. *latifolium* (W. C. Cheng) W. C. Cheng

Ligustrum fengjieense Xian Y. Li & Si Y. Zeng 长梗女贞 [New Species]

LI Xian-yuan, ZENG Si-yuan, YU Jie. *Ligustrum fengjieense* (Oleaceae), a New Species from Eastern Chongqing, China. **Phytotaxa** [J] 494(3): 297-300. [E] 2021: [298]. doi: 10.11646/phytotaxa.494.3.5

TYPE: Xian Y. Li 2019001 (holotype: HWA); Xian Y. Li 2019002 (paratype: HWA)

CHINA (Chongqing*)

IUCN: DD; **Evidence:** morphology

Osmanthus austrozhejiangensis Z. H. Chen, W. Y. Xie & Xi Liu 浙南木樨 [New Species]

XIE Wen-yuan, LIU Xi, MEI Xu-dong, CHEN Feng, CHEN Zheng-hai. *Osmanthus austrozhejiangensis* (Oleaceae) a New Species from Zhejiang. *Guihaia* [J] 41(1): 10-15. [C] 2021: [11]. doi: 10.11931/guihaia.gxzw202001030

TYPE: X. D. Mei & S. Z. Hu JN18093002 (holotype: ZM; isotype: ZM, IBK); Z. H. Chen, S. Z. Hu & R. L. Liu JN181217001 (paratype: IBK, ZM); Z. H. Chen, S. Z. Hu & R. L. Liu JN181217002 (paratype: ZM); Z. H. Chen & R. L. Liu JN181217003 (paratype: ZM); S. Z. Hu JN180905004 (paratype: ZM); S. Z. Hu JN180905006 (paratype: ZM); Z. H. Chen & al. JN19031401 (paratype: ZM); X. D. Mei & J. Lin JN01 (paratype: ZM); X. D. Mei & J. Lin JN02 (paratype: ZM); X. D. Mei & J. Lin JN03 (paratype: ZM); Z. H. Chen & al. JN170801-08 (a) (paratype: ZM); Z. H. Chen & al. JN19031305 (paratype: ZM); M. X. Wu & F. G. Zhang 4382 (paratype: ZM); s.coll. 23989 (paratype: HHBG); Z. H. Chen & X. Liu TS18062209 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology; ITS

Orchidaceae 兰科

Anoectochilus medogensis H. Z. Tian & Yue Jin 墨脱金线兰 [New Species]

JIN Yue, SUN Mei, JIANG Hong, KUMAR Pankaj, LIU Zhen, SCHUITEMAN Andre, WU Jian-yong, TIAN Huai-zhen. *Anoectochilus medogensis* (Goodyerinae, Cranichideae, Orchidaceae), a New Species from Tibet, China. *Phytotaxa* [J] 510(3): 213-227. [E] 2021: [216]. doi: 10.11646/phytotaxa.510.3.2

TYPE: H. Z. Tian & al. 20190817003 (holotype: HSNU-0079764); H. Z. Tian & al. 20190817004 (paratype: CSH-0180101); H. Z. Tian & al. 20190818006 (paratype: PE); H. Z. Tian & al. 20190818017 (paratype: HSNU-0079765); H. Jiang & W. P. Zhang 07465 (paratype: YAF-07465)

CHINA (Xizang*)

IUCN: CR; **Evidence:** morphology; ITS, trnL-F, matK1, matK2, rbcL

Aphyllorchis yachangensis Ying Qin & Yan Liu 雅长无叶兰 [New Species]

QIN Ying, CHEN Hai-ling, DENG Zhen-hai, LIU Yan. *Aphyllorchis yachangensis* (Orchidaceae), a New Holomycotrophic Orchid from China. *PhytoKeys* [J] 179: 91-97. [E] 2021: [92]. doi: 10.3897/phytokeys.179.63994

TYPE: Ying Qin & al. QY20190719001 (holotype: IBK; isotype: IBK)

CHINA (Guangxi*)

Evidence: morphology

Bulbophyllum frostii Summerh 缘毛卷瓣兰 [New Record]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [371]. doi: 10.1016/j.pld.2021.05.006

TYPE: M. Sandes s.n. (holotype: K-000891074)

CHINA (Yunnan); VIETNAM*

Evidence: morphology

Bulbophyllum nematocaulon Ridl. 绿花石豆兰 [New Record]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [374]. doi: 10.1016/j.pld.2021.05.006

TYPE: Scortechini B. 614 (holotype: K-000829265)

CHINA (Yunnan); MALAYSIA*

Evidence: morphology

Bulbophyllum pulcherissimum H. Jiang, D. M. He & J. D. Ya 美花大苞兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [373]. doi: 10.1016/j.pld.2021.05.006

TYPE: H. Jiang 10026 (holotype: YAF; isotype: KUN); H. Jiang 10122 (paratype: YAF)

CHINA (Yunnan*)

Evidence: morphology

Bulbophyllum raskotii J. J. Verm., Schuit. & de Vogel 尼泊尔大苞兰 [New Record]

LI Meng-kai, CHEN Xue-da, XIA Chen-xi, XING Zhen, LUO Yan. Two Newly Recorded Species (Orchidaceae) in China. *Guihaia* [J] 41(3): 482-486. [C] 2021: [483]. doi: 10.11931/guihaia.gxzw202008002

TYPE: B. B. Raskoti 270 (holotype: KATH; isotype: TUCH)

CHINA (Xizang); NEPAL*

IUCN: EN; **Evidence:** morphology

Bulbophyllum raskotii J. J. Verm., Schuit. & de Vogel 滇西大苞兰 [New Record]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [372]. doi: 10.1016/j.pld.2021.05.006

TYPE: B. B. raskoti 270 (holotype: KATH; isotype: TUCH)

CHINA (Yunnan); NEPAL*

Evidence: morphology

Bulbophyllum retusum H. Jiang, D. P. Ye & J. D. Ya 凹萼石豆兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [369]. doi: 10.1016/j.pld.2021.05.006

TYPE: H. Jiang 05599 (holotype: YAF; isotype: KUN, YAF); H. Jiang 04407 (paratype: YAF); H. Jiang 05664 (paratype: YAF); H. Jiang 09005 (paratype: YAF); J. D. Ya, L. Huang, R. Z. Zhang 19HT3315 (paratype: KUN); H. Jiang 05638 (paratype: YAF)

CHINA (Xizang, Yunnan*)

Evidence: morphology

Bulbophyllum tseanum (S. Y. Hu & Barretto) Z. H. Tsi [New Synonyms]

LI Lin, HU Ai-qun, WU Qiu-ping, WU Kun-lin, FANG Lin, ZENG Song-jun. Reconsideration of the Taxonomic Status of *Bulbophyllum obtusangulum* (Orchidaceae) from Southern China. *Phytotaxa* [J] 494(2): 219-224. [E] 2021: [222]. doi: 10.11646/phytotaxa.494.2.4

TYPE: S. Y. Hu 13586 (holotype: K)

CHINA (Hainan, Hong Kong*)

Evidence: morphology

S: *Bulbophyllum obtusangulum* Z. H. Tsi (F. C. How 72637B, holotype: PE; isotype: IBSC)

Bulbophyllum versicolor Z. Zhou, P. Y. Wu & Z. J. Liu 多色卷瓣兰 [New Species]

ZHOU Zhuang, WU Peng-yu, LIN Ya-jun, ZHAO Zhuang, TU Xiong-de, FU Shuang-bin, YING Zhen, LIU Zhong-jian. *Bulbophyllum versicolor* (Orchidaceae, Malaxideae), a New Species from Yunnan, China: Evidence from Morphology and Molecular Analyses. *Phytotaxa* [J] 528(4): 247-254. [E] 2021: [251]. doi: 10.11646/phytotaxa.528.4.3

TYPE: Z. Zhou 2020103001 (holotype: ZM)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology; nrITS, matK, atpI-atpH, trnL-F

Bulbophyllum ximaense J. D. Ya & Ting Zhang 昔马石豆兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [366]. doi: 10.1016/j.pld.2021.05.006

TYPE: Ting Zhang, J. D. Ya & Q. R. Zhang 17HT0351 (holotype: KUN; isotype: KUN)

CHINA (Yunnan*)

Evidence: morphology

Bulbophyllum xizangense J. D. Ya & C. Liu 西藏石豆兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [368]. doi: 10.1016/j.pld.2021.05.006

TYPE: J. D. Ya & C. Liu 18HT2445 (holotype: KUN; isotype: KUN)

CHINA (Xizang*)

Evidence: morphology

Calanthe × yarlungzangboensis P. P. Wu & Zi Wang 雅鲁藏布虾脊兰 [New Nothospecies]

WU Po-po, WANG Zi, JIA Ning-xia, GUO Shi-wei, LIU Chang-cheng, JIN xiao-hua, GUO Ke. *Calanthe × yarlungzangboensis*, a New Natural Hybrid in Genus *Calanthe* (Orchidaceae) from China. *Phytotaxa* [J] 518(2): 167-174. [E] 2021: [171]. doi: 10.11646/phytotaxa.518.2.5

TYPE: P. P. Wu & Z. Wang VTP00009089 (holotype: PE)

CHINA (Xizang*)

Evidence: morphology; ITS, rbcL, matK

H: *Calanthe griffithii* Paxton & Lindl. × *Calanthe tricarinata* Lindl.

Cheirostylis chuxiongensis J. D. Ya 小唇叉柱兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [363]. doi: 10.1016/j.pld.2021.05.006

TYPE: J. D. Ya, L. Huang & R. Z. Zhang 19HT3275 (holotype: KUN); H. Jiang 10118 (paratype: YAF)

CHINA (Yunnan*)

Evidence: morphology

Cheirostylis yei J. D. Ya, Z. D. Han & H. Jiang 叶氏叉柱兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [363]. doi: 10.1016/j.pld.2021.05.006

TYPE: J. D. Ya & Z. D. Han 19HT3124 (holotype: KUN)

CHINA (Yunnan*)

Evidence: morphology

Chiloschista parishii Seidenf. 宽囊异型兰 [New Record]

LIU Ding-kun, MA Liang, CHEN Shi-pin, LAN Si-ren, LI Ming-he. *Chiloschista parishii* Seidenf. (Orchidaceae), a New Record to Mainland of China. *Journal of Tropical and Subtropical Botany* [J] 29(2): 149-150. [C] 2021: [149]. doi: 10.11926/jtsb.4278

CHINA (Taiwan, Yunnan); **INDIA, MYANMAR, THAILAND**

Evidence: morphology

Cleisostoma luopingense Q. Liu & X. F. Wu [New Species]

WU Xun-feng, WANG Yu-qian, CHI Kuan-bo, LIU Qiang, WANG Wen-hua. *Cleisostoma luopingense*, a New Species of Orchidaceae from Yunnan, China. *Phytotaxa* [J] 521(4): 244-248. [E] 2021: [245]. doi: 10.11646/phytotaxa.521.4.2

TYPE: Q. Liu 748 (holotype: HFTC)

CHINA (Yunnan*)

Evidence: morphology

Cleisostoma tricornutum Aver. 角状隔距兰 [New Record]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang, JIN Xiao-hua. Taxonomy Notes on Vandaeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [388]. doi: 10.1016/j.pld.2021.01.009

TYPE: Averyanov & al. CPC 6894 (holotype: LE)

CHINA (Yunnan); **VIETNAM***

Evidence: morphology; nrITS, matK

Corallorhiza sinensis G. W. Hu & Q. F. Wang [New Species]

YANG Jia-xin, PENG Shuai, WANG Jun-jie, DING Shi-xiong, WANG Yan, TIAN Jing, YANG Han, HU Guang-wan, WANG Qing-feng. Morphological and Genomic Evidence for a New Species of *Corallorhiza* (Orchidaceae: Epidendroideae) from SW

China. *Plant Diversity* [J] 43(5): 409-419. [E] 2021: [413]. doi: 10.1016/j.pld.2021.01.002

TYPE: S. Peng, J. X. Yang & J. J. Wang YJX-0060 (holotype: HIB; isotype: HIB); S. Peng, J. X. Yang & J. J. Wang PS-00166 (paratype: HIB)

CHINA (Sichuan*)

IUCN: CR; **Evidence:** morphology; plastid genome

Crepidium × *cordilabium* T. P. Lin 心唇小柱兰 [New Nothospecies]

LIN Tsan-piao. New Additions of *Crepidium*, *Goodyera*, and *Platanthera* (Orchidaceae) to the Orchid Flora of Taiwan. *Taiwania* [J] 66(1): 11-19. [E] 2021: [14]. doi: 10.6165/tai.2021.66.11

TYPE: J. Y. Wang s.n. (type: TAI-289768)

CHINA (Taiwan*)

Evidence: morphology

H: *Crepidium ophrydis* (J. Koenig) M. A. Clem. & D. L. Jones × *Crepidium matsudae* (Yamam.) Szlach.

Cymbidium motuoense W. Q. Hu, Qing H. Zhang & Z. J. Liu 墨脱虎头兰 [New Species]

HU Wen-qi, ZHANG Qing-hai, CHEN Gui-zhen, ZHU Meng-jia, YU Xia, ZHANG Di-yang, LIU Zhong-jian. *Cymbidium motuoense* (Orchidaceae; Epidendroideae), a New Species from China: Evidence from Morphological and Molecular Data. *Phytotaxa* [J] 509(1): 106-112. [E] 2021: [110]. doi: 10.11646/phytotaxa.509.1.5

TYPE: W. Q. Hu 001 (holotype: FJFC)

CHINA (Xizang*)

Evidence: morphology; nrITS, matK, rbcL

Cymbidium weishanense X. Yu & Z. J. Liu 巍山兰 [New Species]

YU Xia, ZENG Meng-yao, CHEN Gui-zhen, XU Xin-yu, BI Yuan-yang, CHEN Jia-ting, WANG Qian-qian, HU Wen-qi, ZHANG Di-yang, LIU Zhong-jian. *Cymbidium weishanense* (Orchidaceae; Epidendroideae), a New Species from China: Evidence from Morphological and Molecular Data. *Phytotaxa* [J] 500(1): 45-50. [E] 2021: [49]. doi: 10.11646/phytotaxa.500.1.6

TYPE: X. Yu F001 (holotype: FJFC)

CHINA (Yunnan*)

Evidence: morphology; nrITS, matK, rbcL

Cymbidium xichouense Xin Y. Xu, C. C. Ding & S. R. Lan 西畴兰 [New Species]

XU Xin-yu, DING Chang-chun, HU Wen-qi, YU Xia, ZHENG Yu, ZHANG Di-yang, LIAO Xing-yu, LIU Xue-die, LIU Zhong-jian, LAN Si-ren. *Cymbidium xichouense* (Orchidaceae; Epidendroideae), a New Species from China: Evidence from Morphological and Molecular Data. *Phytotaxa* [J] 484(3): 291-297. [E] 2021: [294]. doi: 10.11646/phytotaxa.484.3.4

TYPE: X. Y. Xu F001 (holotype: FJFC)

CHINA (Yunnan*)

Evidence: morphology

Eucosia carnea Blume [New Synonyms]

SUETSUGU Kenji, HSU Tian-chuan. Taxonomic Notes on the Genus *Eucosia* (Orchidaceae) in Japan and Taiwan. *Phytotaxa* [J] 520(2): 215-224. [E] 2021: [215]. doi: 10.11646/phytotaxa.520.2.9

TYPE: C. L. Blume s.n. (holotype: L-0061220)

CHINA (Taiwan); **INDONESIA***

Evidence: morphology

S: *Eucosia hengchunensis* T. C. Hsu; *Goodyera viridiflora* (Blume) Blume var. *hengchunensis* (T. C. Hsu) T. P. Lin (T.C. Hsu 8166, holotype: TAI-496951)

Eucosia cordata (Lindl.) T. C. Hsu [New Synonyms]

SUETSUGU Kenji, HSU Tian-chuan. Taxonomic Notes on the Genus *Eucosia* (Orchidaceae) in Japan and Taiwan. *Phytotaxa* [J] 520(2): 215-224. [E] 2021: [218]. doi: 10.11646/phytotaxa.520.2.9

TYPE: J. Macrae s.n. (holotype: K-000364601)

CHINA (Taiwan); **JAPAN, SRI LANKA***

Evidence: morphology

S: *Goodyera ogatae* Yamam.; *Goodyera viridiflora* (Blume) Blume var. *ogatae* (Yamam.) T.S.Liu & H.J.Su (M. Ogata s.n., holotype: TI-00082034); *Goodyera subuniflora* Ohwi (Y. Taira s.n., holotype: KYO-00092541)

Eucosia longirostrata (Hayata) T. C. Hsu [New Synonyms]

SUETSUGU Kenji, HSU Tian-chuan. Taxonomic Notes on the Genus *Eucosia* (Orchidaceae) in Japan and Taiwan. *Phytotaxa* [J] 520(2): 215-224. [E] 2021: [221]. doi: 10.11646/phytotaxa.520.2.9

TYPE: T. Kawakami & S. Sasaki s.n. (holotype: TI-00082033)

CHINA (Hong Kong, Taiwan*)

Evidence: morphology

S: *Goodyera seikoomontana* Yamam.; *Goodyera viridiflora* (Blume) Blume var. *seikoomontana* (Yamam.) S. S. Ying; *Eucosia seikoomontana* (Yamam.) M. C. Pace (Yamamoto s.n., holotype: TAI-118722); *Goodyera youngsayei* S. Y. Hu & Barretto (G. Barretto 107, holotype: K-000942761; isotype: AMES-00074539)

Gastrochilus minimus Jian W. Li, D. P. Ye & X. H. Jin 小盆距兰 [New Species]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang, JIN Xiao-hua. Taxonomy Notes on Vandaeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [381]. doi: 10.1016/j.pld.2021.01.009

TYPE: D.P. Ye s.n. (holotype: HITBC; isotype: HITBC)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology; nrITS, matK

Gastrochilus yei Jian W. Li & X. H. Jin 叶氏盆距兰 [New Species]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang, JIN Xiao-hua. Taxonomy Notes on Vandaeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [381]. doi: 10.1016/j.pld.2021.01.009

TYPE: J.W. Li 5464 (holotype: HITBC; isotype: HITBC)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; nrITS, matK

Gastrodia flexistyla T. C. Hsu & C. M. Kuo 高山斑叶兰 [New Synonyms]

LIN Tsan-piao. New Addition and Observations of the Orchid Flora of Taiwan: Calanthe, Cheiostylus, Gastrodia, and Goodyera (Orchidaceae). *Taiwania* [J] 66(3): 353-359. [E] 2021: [357]. doi: 10.6165/tai.2021.66.326

TYPE: T. C. Hsu 1300 (holotype: TAI; isotype: TAI-440367)

CHINA (Taiwan*)

Evidence: morphology

S: *Gastrodia flexistylodes* Suetsugu (K. Suetsugu s.n., holotype: KYO; isotype: TNS)

Gastrodia fontinalis T. P. Lin 春天麻 [New Record]

LI Jian-ling, WU Lei, QIN Ying, LIU Yan. *Gastrodia fontinalis*, a Newly Recorded Species of *Gastrodia* to Mainland China. *Journal of Tropical and Subtropical Botany* [J] 29(4): 417-420. [C] 2021: [417]. doi: 10.11926/jtsb.4314

CHINA (Guangxi, Taiwan); JAPAN

Evidence: morphology

Gastrodia longistyla Q. Liu, J. D. Ya & X. H. Jin 长柱天麻 [New Species]

LIU Qiang, YA Ji-dong, WU Xun-feng, SHAO Bing-yi, CHI Kuan-bo, ZHENG Hai-lei, LI Jian-wu, JIN Xiao-hua. New Taxa of tribe Gastrodieae (Epidendroideae, Orchidaceae) from Yunnan, China and Its Conservation Implication. *Plant Diversity* [J] 43(5): 420-425. [E] 2021: [422]. doi: 10.1016/j.pld.2021.06.001

TYPE: Q. Liu 738 (holotype: HFTC)

CHINA (Yunnan*)

IUCN: VU; **Evidence:** morphology; plastome

Gastrodia qingyunshanensis Jiu X. Huang, Han Xu & H. J. Yang 青云山天麻 [New Species]

SHI Shi, YANG Hai-jun, WEI Xue-fen, LIANG Qian-yu, YANG Xin-dong, ZENG Xian-xing, XIE Chong-lin, CHEN Liu-bao, HUANG Qing-hua, ZENG Guo-hong, JIANG Zhu-rong, XU Han, HUANG Jiu-xiang. *Gastrodia qingyunshanensis* (Orchidaceae: Epidendroideae)—a New Holomycotrophic Orchid from Guangdong, China. *Phytotaxa* [J] 483(2): 177-182. [E] 2021: [180]. doi: 10.11646/phytotaxa.483.2.10

TYPE: H. J. Yang & J. X. Huang QYS20190321015 (holotype: CANT; isotype: CANT)

CHINA (Guangdong*)

IUCN: VU; **Evidence:** morphology

Goodyera chinensis Rolfe ex Hemsl. var. *takeoi* (Hayata) T. P. Lin 全唇指柱兰 [New Combination]

LIN Tsan-piao. New Addition and Observations of the Orchid Flora of Taiwan: Calanthe, Cheiostylus, Gastrodia, and Goodyera (Orchidaceae). *Taiwania* [J] 66(3): 353-359. [E] 2021: [356]. doi: 10.6165/tai.2021.66.326

TYPE: Takeo Ito s.n. (type: TI-T00906)

CHINA (Taiwan*)

Evidence: morphology

B: *Arisanorchis takeoi* Hayata

Goodyera maculata T. P. Lin 高山斑叶兰 [New Species]

LIN Tsan-piao. New Addition and Observations of the Orchid Flora of Taiwan: Calanthe, Cheiostylus, Gastrodia, and Goodyera (Orchidaceae). *Taiwania* [J] 66(3): 353-359. [E] 2021: [353]. doi: 10.6165/tai.2021.66.326

TYPE: P. N. Shen s.n. (type: TAI-288180)

CHINA (Taiwan*)

Evidence: morphology

Goodyera schlechtendaliana Rchb. f. 斑叶兰 [New Synonyms]

LIN Tsan-piao. New Addition and Observations of the Orchid Flora of Taiwan: Calanthe, Cheiostylus, Gastrodia, and Goodyera (Orchidaceae). *Taiwania* [J] 66(3): 353-359. [E] 2021: [355]. doi: 10.6165/tai.2021.66.326

TYPE: Göring s.n. (type: W)

CHINA (Guangdong, Taiwan); JAPAN*

Evidence: morphology

S: *Goodyera kwangtungensis* C. L. Tso (N. K. Chun 42963, type: IBSC-0005433)

Goodyera similis Blume var. *similoides* T. P. Lin 叶氏斑叶兰 [New Variety]

LIN Tsan-piao. New Additions of *Crepidium*, *Goodyera*, and *Platanthera* (Orchidaceae) to the Orchid Flora of Taiwan. *Taiwania* [J] 66(1): 11-19. [E] 2021: [11]. doi: 10.6165/tai.2021.66.11

TYPE: Michelle M.S. Yeh s.n. (type: TAI-289813)

CHINA (Taiwan*)

Evidence: morphology

Habenaria aitchisonii Rchb. f. [New Synonyms]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Revision of *Habenaria josephi* Group (sect. *Diphyllae* s.l.) in the Pan-Himalaya. *PhytoKeys* [J] 175: 109-135. [E] 2021: [123]. doi: 10.3897/phytokeys.175.59849

TYPE: Aitchison 413 (holotype: K-000247484; isotype: AMES-00256482)

CHINA (Sichuan, Xizang, Yunnan); BHUTAN, INDIA, NEPAL, PAKISTAN*

Evidence: morphology

S: *Habenaria wolongensis* K. Y. Lang (K. Y. Lang, L. Q. Li & Y. Fei 1528 lectotype: PE-01147127; isotype: PE-01147128)

Habenaria balfouriana Schltr. [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Revision of *Habenaria josephi* Group (sect. *Diphyllae* s.l.) in the Pan-Himalaya. *PhytoKeys* [J] 175: 109-135. [E] 2021: [126]. doi: 10.3897/phytokeys.175.59849

TYPE: G. Forrest 6149 (lectotype: E-00381989; isotype: PE-00340644, IBSC-0636129, K-000796932, P-00370551)

CHINA (Sichuan, Yunnan*)

Evidence: morphology

Habenaria clarkei Kraenzl. [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Revision of *Habenaria josephi* Group (sect. *Diphyllae* s.l.) in the Pan-Himalaya. *PhytoKeys* [J] 175: 109-135. [E] 2021: [115]. doi: 10.3897/phytokeys.175.59849

TYPE: J. D. Hooker 42 (lectotype: K-000247480; isotype: K, AMES-00256484, P, LE)

CHINA (Yunnan); INDIA*

Evidence: morphology

Habenaria delavayi Finet [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Notes and Typification of Some *Habenaria* Species in the Pan-Himalaya. *Phytotaxa* [J] 489(1): 107-108. [E] 2021: [107]. doi: 10.11646/phytotaxa.489.1.10

TYPE: Delavay 4560 (lectotype: P-00405972; isolectotype: P-00405970, P-00405971); Delavay s.n. (syntype: P-00405973); Delavay 1688 (syntypes: P-00405974, P-00405975); Ducloux 310 (syntypes: P-00426060, P-00426059, K-000796936, LE-01012224)
CHINA (Yunnan*)
Evidence: morphology

Habenaria fargesii Finet [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Revision of *Habenaria josephi* Group (sect. *Diphyllae* s.l.) in the Pan-Himalaya. *PhytoKeys* [J] 175: 109-135. [E] 2021: [120]. doi: 10.3897/phytokeys.175.59849
TYPE: Farges 1279 (lectotype: P-00426411)
CHINA (Sichuan*)
Evidence: morphology

Habenaria finetiana Schltr. [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Notes and Typification of Some *Habenaria* Species in the Pan-Himalaya. *Phytotaxa* [J] 489(1): 107-108. [E] 2021: [107]. doi: 10.11646/phytotaxa.489.1.10
TYPE: Delavay 385 (lectotype: P-00426260; isolectotype: P-00426259); Prince H. d'Orleans s.n. (syntype: P-00426258)
CHINA (Yunnan*)
Evidence: morphology

Habenaria glaucifolia Bureau & Franch. [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Revision of *Habenaria josephi* Group (sect. *Diphyllae* s.l.) in the Pan-Himalaya. *PhytoKeys* [J] 175: 109-135. [E] 2021: [120]. doi: 10.3897/phytokeys.175.59849
TYPE: Prince Henry D'Orleans s.n. (lectotype: P-00426784)
CHINA (Sichuan*)
Evidence: morphology

Habenaria tibetica Schltr. [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Revision of *Habenaria josephi* Group (sect. *Diphyllae* s.l.) in the Pan-Himalaya. *PhytoKeys* [J] 175: 109-135. [E] 2021: [130]. doi: 10.3897/phytokeys.175.59849
TYPE: X. L. Jiang 36260 (neotype: PE-00340847)
CHINA (Sichuan*)
Evidence: morphology

Habenaria wolongensis K. Y. Lang [Typification]

PANDEY Tirtha Raj, JIN Xiao-hua. Taxonomic Notes and Typification of Some *Habenaria* Species in the Pan-Himalaya. *Phytotaxa* [J] 489(1): 107-108. [E] 2021: [108]. doi: 10.11646/phytotaxa.489.1.10
TYPE: K. Y. Lang, L. Q. Li & Y. Fei 1528 (lectotype: PE-01147127; isolectotype: PE-1147128)
CHINA (Sichuan*)
Evidence: morphology

Hemimium lijiangense J. D. Ya & C. Liu 丽江角盘兰 [New Species]

LIN Dong-liang, YA Ji-dong, SCHUITTEMAN André, MA Chong-bo, LIU Cheng, GUO Xue-Lian, CHEN Shi-si, WANG Xi-long, ZHANG Zhi-rong, YU Wen-bin, JIN Xiao-hua. Four New Species and a New Record of Orchidinae (Orchidaceae:

Orchideae) from China. *Plant Diversity* [J] 43(5): 390-400. [E] 2021: [394]. doi: 10.1016/j.pld.2021.05.003
TYPE: C. Liu, J. D. Ya, S. J. Min 18CS17414 (holotype: KUN; isotype: KUN)
CHINA (Yunnan*)
Evidence: morphology; nrITS, Xdh, matK, psaB, psbA-trnH, rbcL, trnL-F

Liparis aureolabella J. D. Ya & Z. D. Han 紫脉羊耳蒜 [New Species]

YA Ji-dong, LIN Dong-liang, HAN Zhou-dong, CAI Lei, ZHANG Zhi-rong, HE De-Ming, JIN Xiao-hua, YU Wen-bin. Three New Species of *Liparis* s.l. (Orchidaceae: Malaxideae) from Southwest China Based on Morphological Characters and Phylogenetic Evidence. *Plant Diversity* [J] 43(5): 401-408. [E] 2021: [404]. doi: 10.1016/j.pld.2021.01.006
TYPE: J. D. Ya & Z. D. Han 18HT1878 (holotype: KUN); J. D. Ya, D. M. He, M. J. Feng & M. Q. Han 20CS19138 (paratype: KUN)
CHINA (Yunnan*)
Evidence: morphology; nrITS, matK

Liparis bingzhongluoensis X. H. Jin 丙中洛羊耳蒜 [New Species]

YA Ji-dong, LIN Dong-liang, HAN Zhou-dong, CAI Lei, ZHANG Zhi-rong, HE De-Ming, JIN Xiao-hua, YU Wen-bin. Three New Species of *Liparis* s.l. (Orchidaceae: Malaxideae) from Southwest China Based on Morphological Characters and Phylogenetic Evidence. *Plant Diversity* [J] 43(5): 401-408. [E] 2021: [407]. doi: 10.1016/j.pld.2021.01.006
TYPE: X. H. Jin 31205 (holotype: PE; isotype: PE); X. H. Jin PT-2221 (paratype: PE)
CHINA (Yunnan*)
Evidence: morphology; nrITS, matK

Liparis mengziensis J. D. Ya & Lei Cai 蒙自羊耳蒜 [New Species]

YA Ji-dong, LIN Dong-liang, HAN Zhou-dong, CAI Lei, ZHANG Zhi-rong, HE De-Ming, JIN Xiao-hua, YU Wen-bin. Three New Species of *Liparis* s.l. (Orchidaceae: Malaxideae) from Southwest China Based on Morphological Characters and Phylogenetic Evidence. *Plant Diversity* [J] 43(5): 401-408. [E] 2021: [406]. doi: 10.1016/j.pld.2021.01.006
TYPE: J. D. Ya & Lei Cai 18HT1992 (holotype: KUN)
CHINA (Yunnan*)
Evidence: morphology; nrITS, matK

Liparis petraea Aver. & Averyanov 岩生羊耳蒜 [New Record]

NONG Su-yun, XIE Gao, TAN Wei-ning, LIU Yan. *Liparis petraea*, a Newly Recorded Species of *Liparis* Rich (Orchidaceae) from China and Its Unique Bulbil Propagation Mode. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(7): 1248-1253. [C] 2021: [1249]. doi: 10.7606/j.issn.1000-4025.2021.07.1248
TYPE: L. Averyanov, N. T. Hiep, P. V. The, N. T. Vinh HAL 4979 (holotype: HN; isotype: LE)
CHINA (Guangxi); VIETNAM*
Evidence: morphology

Luisia inconspicua (Hook. f.) King & Pantl 兜唇钗子股 [New Record]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang,

JIN Xiao-hua. Taxonomy Notes on Vandeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [386]. doi: 10.1016/j.pld.2021.01.009
CHINA (Yunnan); BHUTAN, INDIA, NEPAL
Evidence: morphology; nrITS, matK

Luisia simaoensis D. P. Ye & H. Jiang 裂唇钗子股 [New Species]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang, JIN Xiao-hua. Taxonomy Notes on Vandeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [384]. doi: 10.1016/j.pld.2021.01.009

TYPE: J. W. Li 897 (holotype: HITBC; isotype: HITBC); D. P. Ye 1923 (paratype: HITBC, PE)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; nrITS, matK

Myrmechis lingulata J. D. Ya, Ting Zhang & C. Liu 九寨沟全唇兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [364]. doi: 10.1016/j.pld.2021.05.006

TYPE: Ting Zhang & al. 19CS18360 (holotype: KUN; isotype: KUN)

CHINA (Sichuan*)

Evidence: morphology

Myrmechis longii J. D. Ya 美脉全唇兰 [New Species]

YA Ji-dong, ZHANG Ting, PANDEY Tirtha Raj, LIU Cheng, HAN Zhou-dong, YE De-ping, HE De-ming, LIU Qiang, YANG Lan, HUANG Li, ZHANG Rong-zhen, JIANG Hong, CAI Jie. New Contributions to Goodyerinae and Dendrobiinae (Orchidaceae) in the flora of China. *Plant Diversity* [J] 43(5): 362-378. [E] 2021: [365]. doi: 10.1016/j.pld.2021.05.006

TYPE: J. D. Ya, M. -F. Long, M. J. Feng & M. Q. Han 20CS19132 (holotype: KUN; isotype: KUN)

CHINA (Yunnan*)

Evidence: morphology

Neottia wuyishanensis B. Hua Chen & X. H. Jin 武夷山对叶兰 [New Species]

CHEN Bing-hua, JIN Xiao-hua. Neottia wuyishanensis (Orchidaceae: Neottieae), a New Species from Fujian, China. *Plant Diversity* [J] 43(5): 426-431. [E] 2021: [427]. doi: 10.1016/j.pld.2021.01.008

TYPE: B. H. Chen 04012 (holotype: FNU-0040736; isotype: FNU-0039789)

CHINA (Fujian*)

IUCN: LC; **Evidence:** morphology; nrITS, rbcL, matK

Nervilia taitoensis (Hayata) Schltr. 单花脉叶兰 [New Synonyms]

LIN Tsan-piao. New Additions of Crepidium, Goodyera, and Platanthera (Orchidaceae) to the Orchid Flora of Taiwan. *Taiwania* [J] 66(1): 11-19. [E] 2021: [19]. doi: 10.6165/tai.2021.66.11

TYPE: T. Kawakami s.n. (type: TI-T01158)

CHINA (Taiwan*)

Evidence: morphology

S: *Nervilia taiwaniana* S. S. Ying (S. S. Ying 1915, holotype: NTUF); *Nervilia tahanshanensis* T. P. Lin & W. M. Lin (W. M. Lin s.n., holo type: TAI-269081)

Odontochilus putaoensis X. H. Jin, L. A. Ye & A. T. Mu 葡萄齿唇兰 [New Record]

SUN M., JIN Y., HUANG J., KUMAR P., TIAN H. Z. Odontochilus putaoensis (Orchidaceae), a New Record and Key to the Genus for China. *Rheedeia* [J] 31(3): 200-205. [E] 2021: [201]. doi: 10.22244/rheedeia.2021.31.03.11

TYPE: X.H. Jin & al. PTET959 (holotype: PE)

CHINA (Yunnan*); MYANMAR*

IUCN: DD; **Evidence:** morphology

Oreorchis bashanensis Yong Wang tetrakis 巴山山兰 [New Species]

WANG Yong. Oreorchis bashanensis Wang Yong, a New Species of Orchidaceae from Shaanxi, China. *Bulletin of Botanical Research* [J] 41(2): 164-167. [C] 2021: [165]. doi: 10.7525/j.issn.1673-5102.2021.02.002

TYPE: Yong Wang 20190517008 (holotype: HZTC)

CHINA (Shaanxi*)

Evidence: morphology

Panisea panchaseensis Subedi 林芝曲唇兰 [New Record]

LI Meng-kai, CHEN Xue-da, XIA Chen-xi, XING Zhen, LUO Yan. Two Newly Recorded Species (Orchidaceae) in China. *Guihaia* [J] 41(3): 482-486. [C] 2021: [485]. doi: 10.11931/guihaia.gxzw202008002

TYPE: A. Subedi 1780 (holotype: KATH; isotype: TUCH)

CHINA (Xizang); INDIA, NEPAL*

IUCN: VU; **Evidence:** morphology

Paphiopedilum hirsutissimum Pfitzer var. *guangnanense* Y. Y. Pan & W. H. Rao 广南兜兰 [New Variety]

[nom. inval.]

PAN Yun-yun, CHEN Jian-bing, RAO Wen-hui. "Paphiopedilum hirsutissimum var. guangnanense, a New Variety of Paphiopedilum from Yunnan". *Forest Science and Technology* [J] (4): 53-53. [C] 2021: [53]. doi: 10.13456/j.cnki.lykt.2020.04.26.0002

CHINA (Yunnan)

Evidence: morphology

Paphiopedilum villosum (Lindl.) Stein f. *wangliangii* O. Gruss & Z. D. Han [New Form]

GRUSS Olaf, HAN Zhou-dong. Paphiopedilum villosum var. densissimum Eine neue Farbform aus China. *Orchideenjournal (Göttingen)* [J] 28(1): 40-42. [D] 2021: [41].

TYPE: Z. D. Han HZD21001 (holotype: KUN)

CHINA (Yunnan*)

Evidence: morphology

Peristylus fasciculatus J. D. Ya, Schuit. & X. H. Jin 宿茎阔蕊兰 [New Species]

LIN Dong-liang, YA Ji-dong, SCHUITEMAN André, MA Chong-bo, LIU Cheng, GUO Xue-Lian, CHEN Shi-si, WANG Xi-long, ZHANG Zhi-rong, YU Wen-bin, JIN Xiao-hua., Four New Species and a New Record of Orchidinae (Orchidaceae):

Orchideae) from China. *Plant Diversity* [J] 43(5): 390-400. [E] 2021: [395]. doi: 10.1016/j.pld.2021.05.003

TYPE: J. D. Ya, W. Zhang, M. F. Long 19CS18575 (holotype: KUN)

CHINA (Yunnan*)

Evidence: morphology; nrITS, Xdh, matK, psaB, psbA-trnH, rbcL, trnL-F

Peristylus tenuicallus Ormerod 细茎阔蕊兰 [New Record]

LIN Dong-liang, YA Ji-dong, SCHUITEMAN André, MA Chong-bo, LIU Cheng, GUO Xue-Lian, CHEN Shi-si, WANG Xi-long, ZHANG Zhi-rong, YU Wen-bin, JIN Xiao-hua. Four New Species and a New Record of Orchidinae (Orchidaceae: Orchideae) from China. *Plant Diversity* [J] 43(5): 390-400. [E] 2021: [396]. doi: 10.1016/j.pld.2021.05.003

CHINA (Yunnan); **VIETNAM***

Evidence: morphology; nrITS, Xdh, matK, psaB, psbA-trnH, rbcL, trnL-F

Phaius malipoensis D. M. Kong & al. 麻栗坡鹤顶兰 [New Species]

[nom. inval.]

KONG De-min, HUANG Jie, LI Li-qiang, WANG Mei-na, PAN Yun-yun, CHEN Jian-bing, TANG Feng-xia, RAO Wen-hui. "Phaius malipoensis, a New Species of Ochidaceae form Yunnan". *Forest Science and Technology* [J] (7): 51-54. [C] 2021: [51]. doi: 10.13456/j.cnki.lykt.2020.06.30.0005

CHINA (Yunnan)

Evidence: morphology

Pholidota advena (Par. & Rchb. f.) Hook. f. 高褶石仙桃 [New Record]

WU Qiu-ping, YE De-ping, WU Kun-lin, FANG Lin, ZENG Song-jun, LI Lin. Pholidota advena (Par. & Rchb. f.) Hook. f., a Newly Recorded Species of Orchidaceae from China. *Journal of Tropical and Subtropical Botany* [J] 29(4): 406-408. [E] 2021: [406]. doi: 10.11926/jtsb.4367

TYPE: C. S. P. Parish 296 (holotype: K; isotype: W)

CHINA (Yunnan); **MYANMAR***

IUCN: DD; **Evidence:** morphology

Platanthera milinensis X. H. Jin, Schuit. & C. B. Ma 米林舌唇兰 [New Species]

LIN Dong-liang, YA Ji-dong, SCHUITEMAN André, MA Chong-bo, LIU Cheng, GUO Xue-Lian, CHEN Shi-si, WANG Xi-long, ZHANG Zhi-rong, YU Wen-bin, JIN Xiao-hua. Four New Species and a New Record of Orchidinae (Orchidaceae: Orchideae) from China. *Plant Diversity* [J] 43(5): 390-400. [E] 2021: [397]. doi: 10.1016/j.pld.2021.05.003

TYPE: X. H. Jin, D. L. Lin & C. B. Ma 31596 (holotype: PE; isotype: PE)

CHINA (Xizang*)

Evidence: morphology; nrITS, Xdh, matK, psaB, psbA-trnH, rbcL, trnL-F

Platanthera quadricarata T. P. Lin 圣陵粉蝶兰 [New Species]

LIN Tsan-piao. New Additions of Crepidium, Goodyera, and Platanthera (Orchidaceae) to the Orchid Flora of Taiwan. *Taiwania* [J] 66(1): 11-19. [E] 2021: [14]. doi: 10.6165/tai.2021.66.11

TYPE: K. C. Yueh s.n. (type: TAI-289769)

CHINA (Taiwan*)

Evidence: morphology

Pomatocalpa tonkinense (Gagnep.) Seidenfaden. 纹瓣鹿角兰 [New Record]

LIU Zhi-rong, QIN Ying, LIU Sheng-yuan, LIU Yan. New Records of Pomatocalpa (Orchidaceae) from China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(11): 1971-1974. [C] 2021: [1971]. doi: 10.7606/j.issn.1000-4025.2021.11.1971

TYPE: Simond's drawing no. 97 (holotype: P)

CHINA (Guangxi); **LAOS, THAILAND, VIETNAM***

IUCN: CR; **Evidence:** morphology

Ponerorchis gongshanensis X. H. Jin, Schuit. & D. L. Lin 贡山小红门兰 [New Species]

LIN Dong-liang, YA Ji-dong, SCHUITEMAN André, MA Chong-bo, LIU Cheng, GUO Xue-Lian, CHEN Shi-si, WANG Xi-long, ZHANG Zhi-rong, YU Wen-bin, JIN Xiao-hua. Four New Species and a New Record of Orchidinae (Orchidaceae: Orchideae) from China. *Plant Diversity* [J] 43(5): 390-400. [E] 2021: [398]. doi: 10.1016/j.pld.2021.05.003

TYPE: X.H. Jin & D.L. Lin 31207 (holotype: PE; isotype: PE)

CHINA (Yunnan*)

IUCN: EN; **Evidence:** morphology; nrITS, Xdh, matK, psaB, psbA-trnH, rbcL, trnL-F

Taeniophyllum xizangense J. D. Ya & C. Liu 西藏带叶兰 [New Species]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang, JIN Xiao-hua. Taxonomy Notes on Vandaeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [384]. doi: 10.1016/j.pld.2021.01.009

TYPE: J. D. Ya & C. Liu s.n. (holotype: KUN)

CHINA (Xizang*)

IUCN: DD; **Evidence:** morphology; nrITS, matK

Thuniopsis sub sessilis (Rolfe) Ormerod, Kurzweil & Schuit. [New Combination]

KURZWEIL H., ORMEROD P., SCHUITEMAN A. The Long-lost Myanmar Endemic Arundina sub sessilis (Orchidaceae) Found Congeneric with the Recently Described Chinese Thuniopsis cleistogama. *The Gardens' Bulletin Singapore* [J] 72(1): 97-107. [E] 2021: [104]. doi: 10.26492/gbs72(1).2020-09

TYPE: Sander & Sons s.n. (holotype: K)

CHINA (Yunnan); **MYANMAR***

Evidence: morphology

B: *Arundina sub sessilis* Rolfe

Thuniopsis sub sessilis (Rolfe) Ormerod, Kurzweil & Schuit. [New Synonyms]

KURZWEIL H., ORMEROD P., SCHUITEMAN A. The Long-lost Myanmar Endemic Arundina sub sessilis (Orchidaceae) Found Congeneric with the Recently Described Chinese Thuniopsis cleistogama. *The Gardens' Bulletin Singapore* [J] 72(1): 97-107. [E] 2021: [104]. doi: 10.26492/gbs72(1).2020-09

TYPE: Sander & Sons s.n. (holotype: K)

CHINA (Yunnan); **MYANMAR***

Evidence: morphology

S: *Thuniopsis cleistogama* L. Li, D. P. Ye & Shi J. Li (L. Li 19, holotype: IBSC)

Tuberolabium subulatum Jian W. Li & X. H. Jin 勐腊管唇兰 [New Species]

LI Jian-wu, YA Ji-dong, YE De-ping, LIU Cheng, LIU Qiang, PAN Rui, HE Zai-xing, PAN Bo, CAI Jie, LIN Dong-liang, JIN Xiao-hua. Taxonomy Notes on Vandeae (Orchidaceae) from China: Five New Species and Two New Records. *Plant Diversity* [J] 43(5): 379-389. [E] 2021: [380]. doi: 10.1016/j.pld.2021.01.009

TYPE: J.W. Li s.n. (holotype: HITBC)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; nrITS, matK

Orobanchaceae 列当科

Pedicularis pandania W. B. Yu, H. Q. Lin & Y. Hong Cheng 熊猫马先蒿 [New Species]

LIN Hong-qiang, CHENG Yue-hong, LIU Rong, YIN Min, YU We-bin. *Pedicularis pandania* (Orobanchaceae) a new species of *Pedicularis* from the Wolong National Nature Reserve, Sichuan Province, China. *Guihaia* [J] 41(12): 1949-1954. [C] 2021: [1951]. doi: 10.11931/guihaia.gxzw202103078

TYPE: H. Q. Lin & Y. H. Cheng 20200728257 (holotype: HITBC; isotype: HITBC, KUN)

CHINA (Sichuan*)

IUCN: LC; **Evidence:** morphology

Oxalidaceae 酢浆草科

Oxalis texana (Small) Fedde 得州酢浆草 [New Record]

HUANG Ge-han, LI Xiao-chen. A New Record of Naturalized Species and Taxonomic Classification of *Oxalis* L. in China. *Journal of Fujian Agriculture and Forestry University (Natural Science Edition)* [J] 50(4): 497-502. [C] 2021: [497]. doi: 10.13323/j.cnki.j.fafu(nat.sci.).2021.04.009

CHINA (Jiangsu, Shanghai, Zhejiang); **UNITED STATES**

Evidence: morphology

Papaveraceae 罂粟科

Corydalis austroshaanxiensis D. Wang 陕南紫堇 [New Species]

WANG Dong, HUANG Xiao-mei, XU Xiao-dong, WANG Liang. *Corydalis austroshaanxiensis* sp. nov. (Papaveraceae), a Neglected species from Shaanxi, China, and a Revised Circumscription for *C. pseudoincisa*. *Nordic Journal of Botany* [J] 39(e03272): 1-7. [E] 2021: [2]. doi: 10.1111/njb.03272

TYPE: D. Wang & al. 170036 (holotype: CCNU); D. Wang & al. 170038 (paratype: CCNU); Xing Ji-qing 3851 (paratype: SZ, WUK); Xing Ji-qing 3940 (paratype: SZ, WUK); Xing Ji-qing 5733 (paratype: SZ, WUK); Xing Ji-qing 5878 (SZ, WUK); D. Wang & al. 180061 (paratype: CCNU); D. Wang & al. 180062 (paratype: CCNU); D. Wang & al. 180063 (paratype: CCNU); D. Wang & al. 180064 (paratype: CCNU); D. Wang & al. 170041 (paratype: CCNU); D. Wang & al. 170043 (paratype: CCNU); D. Wang & al. 160208 (paratype: CCNU); D. Wang & al. 160211 (paratype: CCNU); D. Wang & al. 1304157 (paratype: CCNU); D. Wang 160200 (paratype: CCNU); D. Wang & al. 1304008 (paratype: CCNU); D. Wang & al. 160147 (paratype: CCNU); D. Wang & al. 160149 (paratype: CCNU); D. Wang & al. 200040 (paratype: CCNU); D. Wang & al. 200023 (paratype: CCNU); D. Wang & al. 200024 (paratype: CCNU)

CHINA (Shaanxi*)

IUCN: LC; **Evidence:** morphology

Corydalis decumbens (Thunb.) Pers. 伏生紫堇 [New Synonyms]

LI Gen-you, XIE Wen-yuan, CHEN Feng, ZHANG Fen-yao, CHEN Gao-kun, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (XI). *Journal of Zhejiang Forestry Science and Technology* [J] 41(4): 77-81. [C] 2021: [79]. doi: 10.3969/j.issn.1001-3776.2021.04.012

CHINA (Anhui)

Evidence: morphology

S: *Corydalis huangshanensis* L. Q. Huang & H. S. Peng (H. S. Peng & M. E. Cheng 20160317001, holotype: ACM; isotype: ACM, PE)

Corydalis decumbens (Thunb.) Pers. var. *zhuijensis* Z. H. Chen & G. Y. Li 狭叶伏生紫堇 [New Variety]

LI Gen-you, XIE Wen-yuan, CHEN Feng, ZHANG Fen-yao, CHEN Gao-kun, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (XI). *Journal of Zhejiang Forestry Science and Technology* [J] 41(4): 77-81. [C] 2021: [80]. doi: 10.3969/j.issn.1001-3776.2021.04.012

TYPE: G. K. Chen, G. Y. Li & Z. H. Chen ZJ21030601 (holotype: ZM; isotype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Corydalis nanchuanensis S. R. Yi 南川紫堇 [New Species]

ZHANG Bu-yun, XIAO Jin-fei, YI Si-rong. *Corydalis nanchuanensis* (Papaveraceae), a New Species from Chongqing, China. *Phytotaxa* [J] 510(2): 163-170. [E] 2021: [164]. doi: 10.11646/phytotaxa.510.2.8

TYPE: S. R. Yi YSR 8126 (holotype: KUN; isotype: KUN, PE); S. R. Yi YSR 8004 (paratype: KUN, PE); YSR 8014 (paratype: KUN, PE); S. R. Yi YSR 8014 (paratype: KUN); S. R. Yi YSR 8423 (paratype: KUN); S. R. Yi YSR 8470 (paratype: KUN); Z. Y. Liu 0144-01 (paratype: IMC); Z. Y. Liu 0144-02 (paratype: IMC); Z. Y. Liu 0144-03 (paratype: IMC); Z. Y. Liu 0144-04 (paratype: IMC); Z. Y. Liu 0144-05 (paratype: IMC); S. X. Tan, Z. L. Li & J. L. Zhang 3084 (paratype: IMC); Z. Y. Liu 973488-01 (paratype: IMC); Z. Y. Liu 973488-02 (paratype: IMC); Z. Y. Liu 973488-03 (paratype: IMC); Z. Y. Liu 973480 (paratype: IMC)

CHINA (Guangxi*)

Evidence: morphology

Corydalis nodosa Mikhailova [New Species]

MIKHAILOVA M. A. New Species of *Corydalis* (Fumariaceae) from Xinjiang (China). *Novitates Systematicae Plantarum Vascularium* [J] 52: 57-61. [R] 2021: [57]. doi: 10.31111/novitates/2021.52.57

TYPE: M. A. Mikhailova & A. V. Sochivko s.n. (holotype: LE-01081614; isotype: LE-01081615, LE-01081617)

CHINA (Xinjiang*)

Evidence: morphology

Meconopsis autumnalis P. A. Egan 秋花绿绒蒿 [New Record]

ZHOU Hai-yi, ZHANG Xu, XU Chang-long, XU Bo. New Discovery of the Genus *Meconopsis* in China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(10): 1781-1784. [C] 2021: [1782]. doi: 10.7606/j.issn.1000-4025.2021.10.1781

CHINA (Xizang); **NEPAL**

Evidence: morphology

***Meconopsis bella* Prain 美花绿绒蒿 [New Record]**

ZHOU Hai-yi, ZHANG Xu, XU Chang-long, XU Bo. New Discovery of the Genus *Meconopsis* in China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(10): 1781-1784. [C] 2021: [1782]. doi: 10.7606/j.issn.1000-4025.2021.10.1781

CHINA (Xizang); **BHUTAN, INDIA, NEPAL**

Evidence: morphology

***Meconopsis georgei* G. Taylor 黄花绿绒蒿 [Rediscovery]**

FANG Zhen-dong, WU Chong-san, LI Cong, HE Xu. The Discovery and Textual Research of *Meconopsis georgei*. *Journal of West China Forestry Science* [J] 50(5): 120-128. [C] 2021: [123]. doi: 10.16473/j.cnki.xblykx1972.2021.05.017

TYPE: G. Forrest 30100

CHINA (Yunnan)

Evidence: morphology

***Meconopsis polygonoides* (Prain) Prain 心叶绿绒蒿 [New Record]**

ZHOU Hai-yi, ZHANG Xu, XU Chang-long, XU Bo. New Discovery of the Genus *Meconopsis* in China. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(10): 1781-1784. [C] 2021: [1783]. doi: 10.7606/j.issn.1000-4025.2021.10.1781

CHINA (Xizang); **BHUTAN**

Evidence: morphology

Phrymaceae 透骨草科

***Mimulicalyx rosulatus* P. C. Tsoong [New Synonyms]**

ZHAO Fei, MIN Dao-zhang, XIANG Chun-lei, CHEN Bin, ZHOU Xin-xin, LIU Bing, LI Bo. Morphological Evidence for the Conspecific Status of the Rediscovered *Mimulicalyx rosulatus* and *M. paludigenus*. *Phytotaxa* [J] 520(1): 106-112. [E] 2021: [109]. doi: 10.11646/phytotaxa.520.1.8

TYPE: T. N. Liou 18265 (holotype: PE-0031326; isotype: IBSC-0004765, IBSC-0004766)

CHINA (Yunnan*)

Evidence: morphology

S: *Mimulicalyx paludigenus* P. C. Tsoong (C. W. Wang 81476, holotype: PE-00031416; isotype: IBSC-0573074)

Phyllanthaceae 叶下珠科

***Leptopus malipoensis* Wen Hua Zhang & Gang Yao 麻栗坡雀舌木 [New Species]**

ZHANG Wen-hua, ZHU Xin-xin, XUE Bin-e, LIU En-de, LI Yu-ling, YAO Gang. Molecular and Morphological Evidence for a New Species of *Leptopus* (Phyllanthaceae) from Southeast Yunnan, China. *PeerJ* [J] 9(e11989): 1-15. [E] 2021: [9]. doi: 10.7717/peerj.11989

TYPE: G. Yao YGYN2020071501 (holotype: IBSC; isotype: KUN, CANT); Z. D. Wei & al. LiuED8755 (paratype: KUN)

CHINA (Yunnan*)

Evidence: morphology; nrITS, matK

***Phyllanthodendron petraeum* P. T. Li 岩生珠子木 [New Synonyms]**

YAO Gang, HUANG Bao-you, DAI Bi-qi, LIAN Kai-ming, LUO Shi-xiao. A New Synonym in Genus *Phyllanthodendron* Hemsl. (Phyllanthaceae). *Journal of Tropical and Subtropical Botany* [J] 29(3): 317-322. [E] 2021: [318]. doi: 10.11926/jtsb.4286

TYPE: Y. K. Li 104 (holotype: IBSC)

CHINA (Guangxi*)

Evidence: morphology

S: *Phyllanthus orbicularifolius* Govaerts & Radcl.-Sm. (P. C. Tam 57334, holotype: IBSC)

Phytolaccaceae 商陆科

***Phytolacca americana* L. 美洲商陆 [New Synonyms]**

CHI Fang-he, LIU Xi, ZHANG Feng-yao, PU Jin-bao, CHEN Jian-bo, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (X). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3): 79-84. [C] 2021: [82]. doi: 10.3969/j.issn.1001-3776.2021.03.012

TYPE: G. Clifford s.n. (lectotype: BM-000628580)

CHINA (Jiangsu); **NETHERLAND***

Evidence: morphology

S: *Phytolacca americana* L. var. *huadongensis* X. H. Li (X. H. Li 181007, holotype: NAU)

***Phytolacca icosandra* L. 二十蕊商陆 [New Record]**

XI Hui-hui, WU Li-xin, FENG Jing-qiu, YIN Gen-shen. A New Record of Naturalized Species in Mainland China: *Phytolacca icosandra* L. *Ecology and Environmental Sciences* [J] 30(8): 1555-1560. [C] 2021: [1555]. doi: 10.16258/j.cnki.1674-5906.2021.08.001

TYPE: s.coll s.n. (lectotype: LINN-HL607-4)

CHINA (Yunnan, Taiwan); **[AMERICA]**

Evidence: morphology

Pittosporaceae 海桐科

***Pittosporum brachypodum* G. Y. Li, Z. H. Chen & Xiu P. Li 短梗海金子 [New Species]**

LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [341].

TYPE: G. Y. Li NH20130384 (holotype: ZJFC)

CHINA (Zhejiang*)

Evidence: morphology

***Pittosporum maoshanense* Z. H. Chen, G. Y. Li & X. F. Jin 鼎山海桐 [New Species]**

CHEN Zheng-hai, WU Xiao-yuan, CHEN Feng, XIE Wen-yuan, JIN Xiao-feng. *Pittosporum maoshanense* (Pittosporaceae), a New Species from Eastern China. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 257-260. [C] 2021: [257]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.006

TYPE: L. M. Ji, G. Y. Li & Z. H. Chen LQ13061205 (holotype: ZM; isotype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Poaceae 禾本科

***Ampelocalamus sinovietnamensis* Y. H. Tong, Z. G. Xu, J. B. Ni & N. H. Xia [New Species]**

TONG Yi-hua, XU Zhen-guo, NI Jing-bo, ZENG Si-jin, XIA Nian-he. *Ampelocalamus sinovietnamensis* (Poaceae: Bambusoideae), a New Species from the Border of China and Vietnam. *Nordic Journal of Botany* [J] 39(e03070): 1-7. [E] 2021: [5]. doi: 10.1111/njb.03070

TYPE: N. H. Xia & al. BH-84 (holotype: IBSC; isotype: GXFI);

Z. G. Xu 0904 (paratype: GXFI); S. J. Zeng & J. B. Ni SJ4724 (paratype: IBSC)

CHINA (Guangxi*)

IUCN: LC; **Evidence:** morphology; plastid genome

Andropogon virginicus L. 弗吉尼亚须芒草 [New Record]

ZHANG Xie-yong, SUN Guo-feng, CHEN Wen-li. Notes on the Family Poaceae in China (I). *Journal of Tropical and Subtropical Botany* [J] 29(1): 91-95. [C] 2021: [93]. doi: 10.11926/jtsb.4248

TYPE: Linn. No. 1211.12 (lectotype: LINN)

CHINA (Jiangxi, Zhejiang); UNITED STATES*

Evidence: morphology

Anthoxanthum flexuosum (Hook. f.) Veldkamp 曲序黄花茅 [New Record]

ZHANG Xie-yong, SUN Guo-feng, CHEN Wen-li. Notes on the Family Poaceae in China (I). *Journal of Tropical and Subtropical Botany* [J] 29(1): 91-95. [C] 2021: [91]. doi: 10.11926/jtsb.4248

TYPE: King's collector s.n. (holotype: K)

CHINA (Xizang); BHUTAN, INDIA*

Evidence: morphology

Arundinella tengchongensis (B. S. Sun & Z. H. Hu ex S. L. Chen)

L. Q. Jiang & H. Peng 腾冲野古草 [New Combination]

JIANG Li-qiong, PENG Hua, WANG Yue-hua. *Arundinella tengchongensis* (Poaceae), a Name at New Rank and Newly Combined Based on Morphological and Molecular Data. *Nordic Journal of Botany* [J] 39(e03267): 1-12. [E] 2021: [9]. doi: 10.1111/njb.03267

TYPE:: L. Q. Jiang & Y. Y. Li jlq298 (neotype: KUN-1511686; isoneotype: IBSC, K, KUN, PE)

CHINA (Yunnan:(T))

Evidence: morphology; nrITS, matK, trnL-F

B: *Arundinella setosa* Trin. var. *tengchongensis* B. S. Sun & Z. H. Hu ex S. L. Chen

Arundinella tengchongensis (B. S. Sun & Z. H. Hu ex S. L. Chen)

L. Q. Jiang & H. Peng 腾冲野古草 [Typification]

JIANG Li-qiong, PENG Hua, WANG Yue-hua. *Arundinella tengchongensis* (Poaceae), a Name at New Rank and Newly Combined Based on Morphological and Molecular Data. *Nordic Journal of Botany* [J] 39(e03267): 1-12. [E] 2021: [9]. doi: 10.1111/njb.03267

TYPE:: L. Q. Jiang & Y. Y. Li jlq298 (neotype: KUN-1511686; isoneotype: IBSC, K, KUN, PE)

CHINA (Yunnan:(T))

Evidence: morphology; nrITS, matK, trnL-F

Bambusa daporijoana H. B. Naithani & Kandwal [New Species]

NAITHANI H. B., KANDWAL Manish K. *Bambusa daporijoana*-A New Species of Bamboo from Arunachal Pradesh, India. *Indian Forester* [J] 147(7): 687-688. [E] 2021: [687]. doi: 10.36808/if/2021/v147i7/164264

TYPE: Naithani ser. II 1416 (holotype: DD); Naithani ser. II 51316 (paratype: DD)

CHINA (Xizang*); INDIA

Evidence: morphology

Bambusa suijiangensis J. B. Ni, Z. Y. Niu & Y. H. Tong 绥江青竹 [New Species]

NI Jing-bo, NIU Zheng-yang, ZHENG Xi-rong, WU Guang-min, TONG Yi-hua. *Bambusa suijiangensis*, a New Species of

Bambusa from Guangdong, China. *Journal of Bamboo Research* [J] 40(1): 11-15. [C] 2021: [12]. doi: 10.19560/j.cnki.issn1000-6567.2021.01.003

TYPE: N. H. Xia, J. B. Ni & X. R. Zheng B2017009 (holotype: IBSC); J. B. Ni NJB001 (paratype: IBSC) ; Huaiji Exped. 441224181012018LY (paratype: IBSC)

CHINA (Guangdong*)

Evidence: morphology

Borinda acuticontracta (T. P. Yi) Stapleton [New Combination]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia acuticontracta* T. P. Yi

Borinda adpressa (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia adpressa* T. P. Yi

Borinda altior (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia altior* T. P. Yi

Borinda communis (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia communis* T. P. Yi

Borinda declivis (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia declivis* T. P. Yi

Borinda dura (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia dura* T. P. Yi

Borinda elegans (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia elegans* T. P. Yi

Borinda emaculata (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia emaculata* T. P. Yi

Borinda erecta (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia erecta* T. P. Yi

Borinda ferax (Keng) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Arundinaria ferax* Keng

Borinda hygrophila (Hsueh & T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia hygrophila* Hsueh & T. P. Yi

Borinda jiulongensis (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia jiulongensis* T. P. Yi

Borinda mairei (Hack. ex Hand.-Mazz.) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Arundinaria mairei* Hack. ex Hand.-Mazz.

Borinda muliensis (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia muliensis* T. P. Yi

Borinda nivalis (T. P. Yi & J. Y. Shi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia nivalis* T. P. Yi & J. Y. Shi

Borinda pleniculmis (Hand.-Mazz.) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [7].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Arundinaria pleniculmis* Hand.-Mazz.

Borinda praecipua (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia praecipua* T. P. Yi

Borinda sagittatinea (T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia sagittatinea* T. P. Yi

Borinda similis (Hsueh & T. P. Yi) Stapleton [**New Combination**]
STAPLETON Chris M. A. We Need to Talk about Fargesia: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia similis* Hsueh & T. P. Yi

Borinda solida (T. P. Yi) Stapleton [**New Combination**]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia solida* T. P. Yi

Borinda stricta (Hsueh & C. M. Hui) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia stricta* Hsueh & C. M. Hui

Borinda strigosa (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia strigosa* T. P. Yi

Borinda subflexuosa (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia subflexuosa* T. P. Yi

Borinda sylvestris (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia sylvestris* T. P. Yi

Borinda tengchongensis (Hsueh & C. M. Hui) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Thamnocalamus tengchongensis* Hsueh & C. M. Hui

Borinda viridis (D. Z. Li & Xia Y. Ye) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia viridis* D. Z. Li & Xia Y. Ye

Borinda xianggelilaensis (T. P. Yi & Lin Yang) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia xianggelilaensis* T.P. Yi & Lin Yang

Borinda yajiangensis (T. P. Yi & J. Y. Shi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Sichuan)

Evidence: morphology; ddRAD

B: *Fargesia yajiangensis* T. P. Yi & J. Y. Shi

Borinda yulongshanensis (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia yulongshanensis* T. P. Yi

Borinda zayuensis (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [8].

CHINA (Xizang)

Evidence: morphology; ddRAD

B: *Fargesia zayuensis* T. P. Yi

Campeioestachys calcicola (Y. L. Keng) Y. H. Zhou, H. Q. Zhang & M. Q. Deng [New Combination]

TAN Lu, ZHANG Hai-qin, CHEN Wei-huan, DENG Meng-qiu, SHA Li-na, FAN Xing, KANG Hou-yang, WANG Yi, WU Dan-dan, ZHOU Yong-hong. Genome Composition and Taxonomic Revision of *Elymus purpuraristatus* and *Roegneria calcicola* (Poaceae: Triticeae) Based on Cytogenetic and Phylogenetic Analyseshylogenetics and Intrafamilial Classification of Commelinaceae (Commelinales). *Botanical Journal of the Linnean Society* [J] 196(2): 242-255. [E] 2021: [252].

CHINA (Guizhou, Sichuan, Yunnan)

Evidence: morphology; Acc1, DMC1; chromosome

B: *Roegneria calcicola* Y. L. Keng

Campeioestachys purpurarista (C. P. Wang & X. L. Yang) Y. H. Zhou, H. Q. Zhang & Wei Huan Chen [New Combination]

TAN Lu, ZHANG Hai-qin, CHEN Wei-huan, DENG Meng-qiu, SHA Li-na, FAN Xing, KANG Hou-yang, WANG Yi, WU Dan-dan, ZHOU Yong-hong. Genome Composition and

Taxonomic Revision of *Elymus purpuraristatus* and *Roegneria calcicola* (Poaceae: Triticeae) Based on Cytogenetic and Phylogenetic Analyses. *Phylogenetics and Intrafamilial Classification of Commelinaceae* (Commelinales). *Botanical Journal of the Linnean Society* [J] 196(2): 242-255. [E] 2021: [252].

CHINA (Nei Mongol)

Evidence: morphology; Acc1, DMC1; chromosome

B: *Elymus purpuraristatus* C. P. Wang & X. L. Yang

Ferocalamus rimosivaginus T. H. Wen [Typification]

CAI Zhuo-yu, XIA Nian-he. The Floral Morphology of *Ferocalamus rimosivaginus* (Poaceae: Bambusoideae). *Phytotaxa* [J] 498(4): 265-272. [E] 2021: [268]. doi: 10.11646/phytotaxa.498.4.4

TYPE: G. K. Chen No.1 (holotype: ZJFI); Sino-Soviet Botanical Expedition 2490 (epitype: PE-01512408, isoeotype: KUN-0075621)

CHINA (Yunnan*)

Evidence: morphology

Gelidocalamus fengkaiensis N. H. Xia & Z. Y. Cai 封开短枝竹 [New Species]

CAI Zhuo-yu, ZHOU Xin-xin, WONG Khoon-meng, XIA Nian-he. *Gelidocalamus fengkaiensis* (Poaceae: Bambusoideae), a New Bamboo Species from Guangdong, China, with an Analysis of Branch Development in Relation to Flowering. *Botanical Studies (Taipei)* [J] 62(12): 1-8. [E] 2021: [2]. doi: 10.1186/s40529-021-00319-4

TYPE: Z. Y. Cai CZY-141 (holotype: IBSC-0865923; isotype: PE-02352344); Z. Y. Cai CZY-137 (paratype: IBSC); X. X. Zhou s.n. (paratype: IBSC)

CHINA (Guangdong*)

Evidence: morphology

Gigantochloa glabrata N. H. Xia & Y. Zeng ex D. Z. Li & Z. C. Xu 少毛巨竹 [New Species]

XU Zu-chang, LIU Jing-xia, LI De-zhu. *Gigantochloa glabrata* (Poaceae, Bambusoideae), a New Bamboo Species from Yunnan, China. *PhytoKeys* [J] 171: 37-45. [E] 2021: [39]. doi: 10.3897/phytokeys.171.59562

TYPE: Z. C. Xu 2019041 (holotype: KUN)

CHINA (Yunnan*)

Evidence: morphology

Gigantochloa glabrata N. H. Xia & Y. Zeng ex D. Z. Li & Z. C. Xu 少毛巨竹 [Correction]

XU Zu-chang, LIU Jing-xia, LI De-zhu. *Gigantochloa glabrata* (Poaceae, Bambusoideae), a New Bamboo Species from Yunnan, China. *PhytoKeys* [J] 171: 37-45. [E] 2021: [39]. doi: 10.3897/phytokeys.171.59562

TYPE: Z. C. Xu 2019041 (holotype: KUN)

CHINA (Yunnan*)

Evidence: morphology

A: *Gigantochloa albociliata* auct. non (Munro) Kurz: C. J. Hsueh & J. L. Sun in Keng f. & Z. P. Wang, Fl. Reipubl. Popularis. Sin. 9(1): 198. pl. 50, 1-11. 1996; D. Z. Li & Stapleton in Z. Y. Wu, P. H. Raven & D. Y. Hong, Fl. China 22: 47. 2006; L. B. Zhang in C. Y. Wu, P. H. Raven & D. Y. Hong, Fl. China Illustr. 22: 46. fig. 46:1-11, 2007.

Pleioblastus triangulata (Hsueh & T. P. Yi) N. H. Xia, Y. H. Tong & Z. Y. Niu 五爪竹 [New Combination]

NIU Zheng-yang, TONG Yi-hua, XIA Nian-he. *Pleioblastus triangulata* (Poaceae: Bambusoideae), a New Combination for *Indosasa triangulata* Based on Morphological and Molecular Evidence. *Phytotaxa* [J] 527(4): 275-283. [E] 2021: [278]. doi: 10.11646/phytotaxa.527.4.5

TYPE: T. P. Yi 77339 (holotype: SIFS)

CHINA (Yunnan*)

Evidence: morphology; chloroplast genome

B: *Indosasa triangulata* Hsueh & T. P. Yi

*Poa kengii*OLONOVA & Sylvester [New Species]

OLONOVA Marina Vladimirovna, SYLVESTER Steven P. *Poa liuliangii* and *P. kengii* (Poaceae), Two New Species from the Hengduan Mountains of Southwest China. *Taiwania* [J] 66(2): 251-257. [E] 2021: [252]. doi: 10.6165/tai.2021.66.251

TYPE: Y. S. Chen & M. V. Olonova TK-002705 (holotype: TK; isotype: PE); Y. S. Chen & M. V. Olonova TK-002709 (paratype: TK, PE); Y. S. Chen & M. V. Olonova TK-002708 (paratype: TK, PE)

CHINA (Sichuan*)

Evidence: morphology

*Poa liuliangii*OLONOVA & Sylvester [New Species]

OLONOVA Marina Vladimirovna, SYLVESTER Steven P. *Poa liuliangii* and *P. kengii* (Poaceae), Two New Species from the Hengduan Mountains of Southwest China. *Taiwania* [J] 66(2): 251-257. [E] 2021: [252]. doi: 10.6165/tai.2021.66.251

TYPE: Y. S. Chen & M. V. Olonova TK-002704 (holotype: TK; isotype: PE); Y. S. Chen & M. V. Olonova TK-002710 (paratype: TK, PE); Y. S. Chen & M. V. Olonova TK-002711 (paratype: TK, PE)

CHINA (Sichuan*)

Evidence: morphology

Stipa turkestanica Hack. 土耳其针茅 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1268]. doi: 10.17520/biods.2021181

CHINA (Xizang); INDIA

Evidence: morphology

Tongpeia Stapleton [New Genus]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [9].

TYPE: *Tongpeia arachnoides* Stapleton

Evidence: morphology; ddRAD

Tongpeia arachnoides Stapleton [New Species]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [12].

TYPE: Stapleton 1412 (holotype: WSY)

CHINA (Yunnan*)

Evidence: morphology; ddRAD

Tongpeia fungosa (T. P. Yi) Stapleton [New Combination]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [13].

CHINA (Guizhou, Sichuan, Yunnan)

Evidence: morphology; ddRAD

B: *Fargesia fungosa* T. P. Yi

Tongpeia syrinx Stapleton [New Species]

STAPLETON Chris M. A. We Need to Talk about *Fargesia*: New Combinations and a New Genus in the Temperate Sino-Himalayan Bamboos (Poaceae: Bambusoideae). *Journal of the American Bamboo Society* [J] 31: 1-16. [E] 2021: [13].

TYPE: Stapleton 1413 (holotype: WSY)

CHINA (Yunnan*)

Evidence: morphology; ddRAD

Yushania doupengshanensis Y. Y. Zhang & N. H. Xia 斗篷山玉山竹 [New Species]

ZHANG You-yuan, XIA Nian-he. *Yushania doupengshanensis* (Poaceae, Bambusoideae), a New Bamboo Species from South Guizhou, China. *Phytotaxa* [J] 505(2): 229-234. [E] 2021: [230]. doi: 10.11646/phytotaxa.505.2.9

TYPE: Y. Y. Zhang 2004 (holotype: IBSC)

CHINA (Guizhou*)

Evidence: morphology

Yushania elevata T. P. Yi [New Synonyms]

YE Xia-ying, ZHANG Yu-xiao, LI De-zhu. Two New Species of *Yushania* (Poaceae: Bambusoideae) from South China, with a Taxonomic Revision of Related Species. *Plant Diversity* [J] 43(6): 492-501. [E] 2021: [494]. doi: 10.1016/j.pld.2021.03.001

TYPE: T. P. Yi 83142 (holotype: SIFS)

CHINA (Yunnan*)

Evidence: morphology; ddRAD-seq

S: *Yushania gigantea* T. P. Yi & Lin Yang (T. P. Yi 05080, holotype: SIFS)

Yushania lipingensis Z. Yang, Z. X. Zhang & Y. H. Tong 黎平玉山竹 [New Species]

YANG Zhi, ZHANG Zhi-xian, WU Yun-hui, TONG Yi-hua. *Yushania lipingensis* (Poaceae: Bambusoideae), a New Species from Guizhou, China. *Journal of Tropical and Subtropical Botany* [J] 29(3): 323-327. [C] 2021: [324]. doi: 10.11926/jtsb.4406

TYPE: Y. H. Tong & F. L. Chen TYH-2478 (holotype: IBSC)

CHINA (Guizhou*)

Evidence: morphology

Yushania longshanensis D. Z. Li & Xia Y. Ye 龙山玉山竹 [New Species]

YE Xia-ying, ZHANG Yu-xiao, LI De-zhu. Two New Species of *Yushania* (Poaceae: Bambusoideae) from South China, with a Taxonomic Revision of Related Species. *Plant Diversity* [J] 43(6): 492-501. [E] 2021: [493]. doi: 10.1016/j.pld.2021.03.001

TYPE: X. Y. Ye & J. X. Liu YXY222 (holotype: KUN; isotype: KUN)

CHINA (Hunan*)

Evidence: morphology; ddRAD-seq

Yushania stoloniforma D. Z. Li & Xia Y. Ye 匍匐玉山竹 [New Species]

YE Xia-ying, ZHANG Yu-xiao, LI De-zhu. Two New Species of *Yushania* (Poaceae: Bambusoideae) from South China, with a Taxonomic Revision of Related Species. *Plant Diversity* [J] 43(6): 492-501. [E] 2021: [494]. doi: 10.1016/j.pld.2021.03.001

TYPE: X. Y. Ye & J. X. Liu YXY224 (holotype: KUN; isotype: KUN)

CHINA (Hunan*)

Evidence: morphology; ddRAD-seq

Yushania weiningensis D. Z. Li & X. Y. Ye [New Name]

YE Xia-ying, ZHANG Yu-xiao, LI De-zhu. Two New Species of *Yushania* (Poaceae: Bambusoideae) from South China, with a Taxonomic Revision of Related Species. *Plant Diversity* [J] 43(6): 492-501. [E] 2021: [494]. doi: 10.1016/j.pld.2021.03.001

TYPE: T. P. Yi 05111 (holotype: SIFS)

CHINA (Guizhou*)

Evidence: morphology; ddRAD-seq

R: *Yushania microphylla* T. P. Yi & Lin Yang

Polygonaceae 蓼科

Fagopyrum longistylum M. L. Zhou & Yu Tang [New Species]

ZHANG Kai-xuan, FAN Yu, WENG Wen-feng, TANG Yu, ZHOU Mei-liang. *Fagopyrum longistylum* (Polygonaceae), a New Species from Sichuan, China. *Phytotaxa* [J] 482(2): 173-182. [E] 2021: [175]. doi: 10.11646/phytotaxa.482.2.5

TYPE: M. L. Zhou & Y. Tang s.n. (holotype: CAAS-2203); H. He & Y. Q. Yang H1099 (paratype: CTC); Li Bing Zhang & H. He 6090 (paratype: CDBI, CTC); Li Bing Zhang, Y. F. Duan & M. Kropf 9572 (paratype: CDBI); K. H. Shing & Q. Xia 5021 (paratype: PE); Qinghai-Tibet Exped. 11209 (paratype: PE); Liang Zhang 1410 (paratype: CDBI); R. Knapp 4166 (paratype: P); Liang Zhang 1819 (paratype: KUN); X. P. Fan FXP55 (paratype: CDBI); E. Hennipman E3196 (paratype: L); Li Bing Zhang, R. Pollawtn, Liang Zhang, P. Limpanasittichai 10572 (paratype: BCU, CDBI, KUN, MO, PYU, XTBG); T. Boonkerd & al. 2011-738 (paratype: BCU)

CHINA (Sichuan*)

IUCN: EN; **Evidence:** morphology; Chromosome; ITS, matK

Polygonum cognatum Meisn. subsp. *chitralicum* (Rech. f. & Schiman-Czeika) Qaiser 扁果岩蓼 [New Record]

HU Fan-bin, XIN Yue, GUO Ke, ZHAO Li-qing. Seven Newly Recorded Species from Xizang and Xinjiang in China. *Biodiversity Science* [J] 29(9): 1265-1270. [C] 2021: [1268]. doi: 10.17520/biods.2021181

CHINA (Xizang); INDIA

Evidence: morphology

Amblyanthus chenii Z. Zhou & H. Sun 墨脱锥药金牛 [New Species]

ZHOU Zhuo, GUO Yong-jie, YUE Ji-pei, CHEN Hong-liang, TAN Yun-hong, SUN Hang. *Amblyanthus chenii* (Primulaceae), a New Species and Generic Record from Xizang, China. *Systematic Botany* [J] 46(1): 152-161. [E] 2021: [157]. doi: 10.1600/036364421X16128061711250

TYPE: Ji. P. Yue, Z. Zhou & H. L. Chen YZC127 (holotype: KUN; isotype: KUN); ETM 3162 (paratype: KUN); ETM 3184 (paratype: KUN); ETM 4229, (paratype: KUN); Y. J. Guo & al. 16CS14432 (paratype: KUN); Z. Zhou, L. S. Qian, J. C. Peng & Y. Z. Zhang ZQP124 (paratype: KUN)

CHINA (Xizang*)

IUCN: DD; **Evidence:** morphology; ITS, atpB, ndhF, psbA-trnH, rbcL, trnL-F

Primulaceae 报春花科

Lysimachia brevianthera Xin W. Li [New Species]

KE Zun-wei, GAN Qi-liang, LI Xin-wei. *Lysimachia brevianthera* (Primulaceae), a New Species from the Daba Mountains in Hubei and Shaanxi, China. *Annales Botanici Fennici* [J] 58(4-6): 253-258. [E] 2021: [254]. doi: 10.5735/085.058.0410

TYPE: Z. W. Ke & Q. L. Gan 1488 (holotype: HIB); Z.W. Ke & Q.L. Gan 1489 (paratype: HIB); Q.L. Gan 3320 (paratype: HIB)
CHINA (Hubei, Shaanxi*)

Evidence: morphology; ITS, matK, rbcL, trnH-psbA

Lysimachia caloneura G. Hao, X. L. Yu & A. Liu [New Species]

LIU Ang, YAN Hai-fei, YU Xun-lin, HAO Gang. *Lysimachia caloneura* (Primulaceae), a New Species from Hunan, China. *Annales Botanici Fennici* [J] 58(1-3): 45-48. [E] 2021: [45]. doi: 10.5735/085.058.0108

TYPE: A. Liu & al. LK0719 (holotype: IBSC; isotype: CSFI); A. Liu & Y. K. Gong LK0950 (paratype: IBSC; CSFI)

CHINA (Hunan*)

Evidence: morphology

Lysimachia lijiangensis W. B. Xu, Z. C. Lu & L. N. Dong 柳江香草 [New Species]

LU Zhao-cen, YUAN Quan, WEI Su-juan, DONG Li-na, XU Wei-bin. *Lysimachia lijiangensis* (Primulaceae), a New Species from Limestone Area of Central Guangxi, China. *Taiwania* [J] 66(1): 65-72. [E] 2021: [67]. doi: 10.6165/tai.2021.66.65

TYPE: Liujiang Exped. 450221190401052LY (holotype: IBK-00427520; isotype: IBK-00427522, GXMG)

CHINA (Guangxi*)

Evidence: morphology; ITS, atpF-atpH, trnL-trnF, rpl32-trnL

Lysimachia xuyongensis X. F. Gao & W. B. Ju [New Species]

JU Wen-bin, DENG Heng-ning, XU Bo, HE Xing-jin, GAO Xin-fen. *Lysimachia xuyongensis* (Primulaceae), a New Species from Sichuan, China. *Phytotaxa* [J] 525(1): 59-64. [E] 2021: [60]. doi: 10.11646/phytotaxa.525.1.7

TYPE: W. B. Ju J-746 (holotype: CDBI; isotype: KUN, PE); X. F. Gao, Y. D. Gao & W. B. Ju HGX11784 (paratype: CDBI); L. Zhang, X. M. Zhou & W. B. Ju HGX14759 (paratype: CDBI)

CHINA (Sichuan*)

IUCN: DD; **Evidence:** morphology

Primula dujiangyanensis W. B. Ju, Bo Xu bis & X. F. Gao [New Species]

JU Wen-bin, DENG Heng-ning, ZHU Da-hai, GAO Yun-dong, GAO Xin-fen, XU Bo. *Primula dujiangyanensis* (Primulaceae) Discovered from Sichuan, Southwest China. *Phytotaxa* [J] 510(3): 275-280. [E] 2021: [276]. doi: 10.11646/phytotaxa.510.3.7

TYPE: B. Xu & Y. D. Gao DJY00272 (holotype: CDBI; isotype: KUN, PE); B. Xu, Z. M. Zhu & al. DJY06717 (paratype: CDBI)

CHINA (Sichuan*)

IUCN: CR; **Evidence:** morphology

Primula longistyla X. D. Ma & J. Y. Shen [New Species]

MA Xing-da, WANG Wen-guang, SHI Ji-pu, SHEN Jian-yong. *Primula longistyla* (Primulaceae), a New Species from Yunnan,

China. *Nordic Journal of Botany* [J] 39(e03341): 1-5. [E] 2021: [2]. doi: 10.1111/njb.03341

TYPE: J. Y. Shen & X. D. Ma 2396 (holotype: HITBC; isotype: HITBC, KUN, PE)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Primula ranunculoides F. H. Chen 毛茛叶报春 [New Synonyms]

LI Gen-you, XIE Wen-yuan, CHEN Feng, ZHANG Fen-yao, CHEN Gao-kun, CHEN Zheng-hai. Notes on the Seed Plant Flora of Zhejiang (XI). *Journal of Zhejiang Forestry Science and Technology* [J] 41(4): 77-81. [C] 2021: [79]. doi: 10.3969/j.issn.1001-3776.2021.04.012

TYPE: Y. G. Xiong 1000 (holotype: LBG; isotype: E-00024342, E-00024343)

CHINA (Jiangxi*, Zhejiang)

Evidence: morphology

S: *Primula lishuiensis* D. H. Wu, X. D. Mei & X. B. Chen (D. H. Wu & X. D. Mei JN20180317021, holotype: LSXY)

Primula sinohumilis G. Hao & C. M. Hu [New Name]

WU Shu-hua, XU Yuan, HU Chi-ming, HAO Gang. *Primula sinohumilis* G. Hao & C.M. Hu (Primulaceae), a New Name for *P. humilis* Pax & Hoffm. *Annales Botanici Fennici* [J] 58(1-3): 13-14. [E] 2021: [13]. doi: 10.5735/085.058.0102

TYPE: Limpricht 1864 (lectotype: WU-0059746)

CHINA (Sichuan*)

Evidence: morphology

R: *Primula humilis* Pax & Hoffm.

Ranunculaceae 毛茛科

Aconitum anhuiense Lu Q. Huang, H. S. Peng & M. Z. Yin 安徽乌头 [New Species]

YIN Min-zhen, PENG Hua-sheng, HUANG Lu-qi. *Aconitum anhuiense* sp. nov. (Ranunculaceae), a New Species from Anhui, China. *Nordic Journal of Botany* [J] 39(e03413): 1-5. [E] 2021: [4]. doi: 10.1111/njb.03413

TYPE: H. S. Peng 2020100301 (holotype: ACM; isotype: ACM); s.coll. 013358 (paratype: ACM); s.coll. 013359 (paratype: ACM); s.coll. 013360 (paratype: ACM); s.coll. 013352 (paratype: ACM)

CHINA (Anhui*)

Evidence: morphology

Anemone baizhishanica W. T. Wang 柏枝山银莲花 [New Species]

WANG Wen-tsai. A New Classification of *Anemone* (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [38]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Jinfoshan Exped. 0147 (holotype: PE)

CHINA (Chongqing*)

Evidence: morphology

Anemone baoxingensis W. T. Wang 宝兴银莲花 [New Species]

WANG Wen-tsai. A New Classification of *Anemone* (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [78]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: D. H. Du 4305 (holotype: PE)

CHINA (Sichuan*)

Evidence: morphology

Anemone bomiensis W. T. Wang 波密银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [55]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: PE Xizang Exped. 9195 (holotype: PE)
CHINA (Xizang*)
Evidence: morphology

Anemone daofuensis W. T. Wang 道孚银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [115]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: S. R. Zhang, B. Z. Li & D. L. Lin 3201 (holotype: PE)
CHINA (Sichuan*)
Evidence: morphology

Anemone demissa Hook. f. & Thomson var. *humilis* W. T. Wang 矮展毛银莲花 [New Variety]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [73]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: W. L. Chen, S. W. Jiang & J. X. Wang 1588 (holotype: PE)
CHINA (Sichuan*)
Evidence: morphology

Anemone discoideogyna W. T. Wang 盘蕊银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [103]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: X. Y. Zhu, R. P. Zhang & K. L. Zu G1022 (holotype: PE; isotype: PE)
CHINA (Sichuan*)
Evidence: morphology

Anemone fugongensis W. T. Wang 福贡银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [91]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: X. H. Jin & T. Zhang 46 (holotype: PE)
CHINA (Yunnan*)
Evidence: morphology

Anemone fugongensis W. T. Wang var. *lushuiensis* W. T. Wang 泸水银莲花 [New Variety]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [91]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: K. Y. Zhao 148 (holotype: PE)
CHINA (Yunnan*)
Evidence: morphology

Anemone galonglashanica W. T. Wang 嘎隆拉山银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [59]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: S. Z. Cheng & B. S. Li 33 (holotype: PE)
CHINA (Xizang*)

Evidence: morphology

Anemone gonggaensis W. T. Wang 贡嘎银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [84]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: Y. Yang, H. W. Li, Z. Yang & Y. Wang GGS316 (holotype: PE)
CHINA (Sichuan*)
Evidence: morphology

Anemone jiulongensis W. T. Wang 九龙银莲花 [New Species] [nom. invail]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [34]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: S. R. Zhang, J. Yang & W. Zhang GGS10336 (holotype: ?; isotype: ?)
CHINA (Sichuan*)
Evidence: morphology

Anemone ludingensis W. T. Wang 泸定银莲花 [New Species]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [51]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: Y. Yang, H. W. Li, Z. Yang & Y. Wang GGS 161 (holotype: PE)
CHINA (Sichuan*)
Evidence: morphology

Anemone neorupestris W. T. Wang 湿地银莲花 [New Name]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [62]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: J. D. Hooker s.n. (holotype: K)
CHINA (Xizang, Yunnan); **INDIA** *
Evidence: morphology
R: *Anemone rupestris* Wall. ex Hook. f. & Thomson

Anemone neorupestris W. T. Wang var. *latifolia* (W. T. Wang) W. T. Wang 宽叶湿地银莲花 [New Combination]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [63]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: D. H. Zhu & Z. B. Feng 20070626 (holotype: PE)
CHINA (Sichuan*)
Evidence: morphology
B: *Anemone rupestris* Wall. ex Hook. f. & Thomson var. *latifolia* W. T. Wang

Anemone neorupestris W. T. Wang subsp. *gelida* (Maxim.) W. T. Wang 冻地银莲花 [New Combination]
WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [63]. doi: 10.11931/guihaia.gxzw2021Suppl.1
TYPE: G. N. Potanin s.n. (holotype: LE; isotype: PE)
CHINA (Sichuan*, Yunnan)
Evidence: morphology
B: *Anemone rupestris* Wall. ex Hook. f. & Thomson subsp. *gelida* Maxim.

Anemone obtusiloba D. Don subsp. *dolichopoda* W. T. Wang 长柄钝裂银莲花 [New Subspecies]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [50]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Qinghai-Xizang Exped. 6953 (holotype: PE)

CHINA (Xizang*)

Evidence: morphology

Anemone prattii Huth ex Ulbr. var. *fulingensis* (W. T. Wang & Z. Y. Liu) W. T. Wang 涪陵银莲花 [New Combination]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [94]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Z. Y. Liu & M. B. Ren 2060366 (holotype: PE); Z. Y. Liu 2050007 (paratype: PE)

CHINA (Chongqing*)

Evidence: morphology

B: *Anemone fulingensis* W. T. Wang & Z. Y. Liu

Anemone prattii Huth ex Ulbr. var. *sparsipilifera* W. T. Wang 疏毛川西银莲花 [New Variety]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [94]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Gonggashan Exped. 0412 (holotype: PE)

CHINA (Sichuan*)

Evidence: morphology

Anemone sect. *Brachycladus* W. T. Wang 短柱银莲花组 [New Section]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [84]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: *Anemone brevistyla* C. C. Chang ex W. T. Wang

Evidence: morphology

Anemone sect. *Pleurocarpus* W. T. Wang 直果银莲花组 [New Section]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [98]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: *Anemone orthocarpa* Hand.-Mazz.

Evidence: morphology

Anemone ser. *Hofengenses* W. T. Wang 鹤峰银莲花系 [New Seris]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [96]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: *Anemone hofengensis* W. T. Wang

Evidence: morphology

Anemone ser. *Jiachaenses* W. T. Wang 加查银莲花系 [New Seris]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [97]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: *Anemone jiachaensis* W. T. Wang

Evidence: morphology

Anemone ser. *Orthocarpae* W. T. Wang 直果银莲花系 [New Seris]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [98]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: *Anemone orthocarpa* Hand.-Mazz.

Evidence: morphology

Anemone ser. *Xingyienses* W. T. Wang 兴义银莲花系 [New Seris]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [98]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: *Anemone xingyiensis* Q. Yuan & Q. E. Yang

Evidence: morphology

Anemone sino-linearis W. T. Wang 条叶银莲花 [New Name]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [68]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: A. E. Pratt 493 (holotype: ?)

CHINA (Sichuan*)

Evidence: morphology

R: *Anemone obtusiloba* D. Don var. *linearis* Brühl

Anemone sino-linearis W. T. Wang var. *holophylla* (Diels) W. T. Wang 钝齿条叶银莲花 [New Combination]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [69]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: A. E. Pratt 493 (holotype: ?)

CHINA (Sichuan*)

Evidence: morphology

B: *Anemone trullifolia* Hook. f. & Thomson var. *holophylla* Diels

Anemone stenosepala W. T. Wang 狭萼银莲花 [New Species]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [44]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Q. E. Yang & H. Z. Kong 98-110 (holotype: PE)

CHINA (Yunnan*)

Evidence: morphology

Anemone trifoliolata W. T. Wang 三小叶银莲花 [New Species]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [62]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: J. F. Rock 17543 (holotype: PE)

CHINA (Sichuan*)

Evidence: morphology

Anemone yulongshanica W. T. Wang var. *polysepala* (W. T. Wang) W. T. Wang 叶枝银莲花 [New Combination]

WANG Wen-tsai. A New Classification of Anemone (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [61]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: K. M. Feng 4270 (holotype: PE); K. M. Feng 4272 (paratype: PE)

CHINA (Yunnan*)

Evidence: morphology

B: *Anemone obtusiloba* Lindl. var. *polysepala* W. T. Wang

Anemone zheduoshanica W. T. Wang 折多山银莲花 [New Species]

WANG Wen-tsai. A New Classification of *Anemone* (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [67]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Gonggashan Exped. 0642 (holotype: PE); Gonggashan Exped. 0734 (paratype: PE)

CHINA (Sichuan*)

Evidence: morphology

Anemone zheduoshanica W. T. Wang var. *atropurpurea* W. T. Wang 暗紫折多山银莲花 [New Variety]

WANG Wen-tsai. A New Classification of *Anemone* (Ranunculaceae) of China. *Guihaia* [J] 41(Suppl. 1): 1-118. [C] 2021: [68]. doi: 10.11931/guihaia.gxzw2021Suppl.1

TYPE: Gonggashan Exped. 0629 (holotype: PE)

CHINA (Sichuan*)

Evidence: morphology

Clematis tongluensis (Bruhl) Tamura 桐庐铁线莲 [New Record]

WANG Wen-tsai. Discovery of *Clematis tongluensis* (Ranunculaceae) from Southeast Tibet of China. *Guihaia* [J] 41(1): 1-3. [C] 2021: [1]. doi: 10.11931/guihaia.gxzw201911040

CHINA (Xizang); INDIA

Evidence: morphology

Delphinium buerjinese W. T. Wang & Z. Z. Yang 布尔津翠雀花 [New Species]

WANG Wen-tsai, YANG Zong-zong. Three New Species of *Delphinium* L. (Ranunculaceae) from Xinjiang. *Guihaia* [J] 41(3): 327-333. [C] 2021: [327]. doi: 10.11931/guihaia.gxzw202012062

TYPE: Z. Z. Yang 3191 (holotype: PE; isotype: Yang's Herbarium); Z. Z. Yang 3190 (paratype: Yang's Herbarium)

CHINA (Xinjiang*)

Evidence: morphology

Delphinium habaheense W. T. Wang & Z. Z. Yang 哈巴河翠雀花 [New Species]

WANG Wen-tsai, YANG Zong-zong. Three New Species of *Delphinium* L. (Ranunculaceae) from Xinjiang. *Guihaia* [J] 41(3): 327-333. [C] 2021: [331]. doi: 10.11931/guihaia.gxzw202012062

TYPE: Z. Z. Yang & A. M. Liu 2977 (holotype: PE)

CHINA (Xinjiang*)

Evidence: morphology

Delphinium huashanicum W. T. Wang 华山翠雀花 [New Species]

WANG Wen-tsai. A New Species and a New Variety of *Delphinium* (Ranunculaceae) from China. *Bulletin of Botanical Research* [J] 41(2): 161-163. [C] 2021: [161]. doi: 10.7525/j.issn.1673-5102.2021.02.001

TYPE: X. P. Wang 20564 (holotype: PE-01566868)

CHINA (Shaanxi*)

Evidence: morphology

Delphinium iliense Huth var. *pubipes* W. T. Wang 毛梗伊犁翠雀花 [New Variety]

WANG Wen-tsai. A New Species and a New Variety of *Delphinium* (Ranunculaceae) from China. *Bulletin of Botanical*

Research [J] 41(2): 161-163. [C] 2021: [161]. doi: 10.7525/j.issn.1673-5102.2021.02.001

TYPE: W. Y. Xu & al. 466 (holotype: PE-00500379)

CHINA (Xinjiang*)

Evidence: morphology

Delphinium nilekeense W. T. Wang & Z. Z. Yang 尼勒克翠雀花 [New Species]

WANG Wen-tsai, YANG Zong-zong. Three New Species of *Delphinium* L. (Ranunculaceae) from Xinjiang. *Guihaia* [J] 41(3): 327-333. [C] 2021: [329]. doi: 10.11931/guihaia.gxzw202012062

TYPE: Z. Z. Yang 2531 (holotype: PE; isotype: Yang's Herbarium); Z. Z. Yang 2538 (paratype: Yang's Herbarium)

CHINA (Xinjiang*)

Evidence: morphology

Thalictrum bouffordii Y. P. Zeng, Q. Yuan & Q. E. Yang [New Species]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum bouffordii* (Ranunculaceae), a New Species from the Qionglai Mountains Region in Western Sichuan, China. *Phytotaxa* [J] 510(1): 18-28. [E] 2021: [18]. doi: 10.11646/phytotaxa.510.1.2

TYPE: Y. P. Zeng & Q. L. Huang 352 (holotype: IBSC; isotype: CDBI, IBSC, PE)

CHINA (Sichuan*)

IUCN: DD; Evidence: morphology

Thalictrum changii Y. P. Zeng, Q. Yuan & Q. E. Yang [New Species]

ZENG You-pai, FEI Wen-qun, YUAN Qiong, YANG Qin-er. *Thalictrum changii* (Ranunculaceae), a New Species from Southern Xizang (Tibet), China. *Phytotaxa* [J] 511(3): 248-260. [E] 2021: [250]. doi: 10.11646/phytotaxa.511.3.4

TYPE: L. Wang, X. Q. Guo & Y. P. Zeng 3160 (holotype: IBSC; isotype: IBSC, KUN, PE)

CHINA (Xizang*)

IUCN: DD; Evidence: morphology

Thalictrum glandulosissimum (Finet & Gagnep.) W. T. Wang & S. H. Wang [New Synonyms]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum panzhihuaense* (Ranunculaceae) Is Placed in Synonymy with *T. glandulosissimum*, with Reduction of *T. tsaii* to *T. glandulosissimum* var. *tsaii*. *Phytotaxa* [J] 520(1): 1-20. [E] 2021: [11]. doi: 10.11646/phytotaxa.520.1.1

TYPE: J. M. Delavay 4813 (lectotype: P-00147231; isolectotype: BO, K-000694054, P-00147230, PE-00934960); J. M. Delavay 4840 (syntype: BO, MPU-011543, NY-00353655); J. M. Delavay 3203 (syntype: P-00147227, P-00147228, P-00147229, S)

CHINA (Sichuan, Yunnan*)

Evidence: morphology

S: *Thalictrum panzhihuaense* W. T. Wang (G. M. Zhang 638, holotype: PE-02050239)

Thalictrum glandulosissimum (Finet & Gagnep.) W. T. Wang & S. H. Wang [Typification]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum panzhihuaense* (Ranunculaceae) Is Placed in Synonymy with *T. glandulosissimum*, with Reduction of *T. tsaii* to *T. glandulosissimum* var. *tsaii*. *Phytotaxa* [J] 520(1): 1-20. [E] 2021: [11]. doi: 10.11646/phytotaxa.520.1.1

TYPE: J. M. Delavay 4813 (lectotype: P-00147231; isolectotype: BO, K-000694054, P-00147230, PE-00934960); J. M. Delavay 4840 (syntype: BO, MPU-011543, NY-00353655); J. M. Delavay 3203 (syntype: P-00147227, P-00147228, P-00147229, S)

CHINA (Sichuan, Yunnan*)

Evidence: morphology

Thalictrum glandulosissimum (Finet & Gagnep.) W. T. Wang & S. H. Wang var. *tsaii* (W. T. Wang) Y. P. Zeng, Q. Yuan & Q. E. Yang [**New Combination**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum panzhuhuaense* (Ranunculaceae) Is Placed in Synonymy with *T. glandulosissimum*, with Reduction of *T. tsaii* to *T. glandulosissimum* var. *tsaii*. *Phytotaxa* [J] 520(1): 1-20. [E] 2021: [19]. doi: 10.11646/phytotaxa.520.1.1

TYPE: H. T. Tsai 57289 (holotype: PE-00028262; isotype: GH-00110476, KUN)

CHINA (Yunnan*)

Evidence: morphology

B: *Thalictrum tsaii* W. T. Wang

Thalictrum leuconotum Franch. [**New Synonyms**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum jilongense* and *T. tenuicaule* (Ranunculaceae), Described from China, Are Both Merged with *T. leuconotum*. *Phytotaxa* [J] 509(2): 168-184. [E] 2021: [172]. doi: 10.11646/phytotaxa.509.2.2

TYPE: J. M. Delavay 2854 (lectotype: P-00147417; isolectotype: K-000694044, MPU-011550, NAS-00070702, NY-00353658, P-00147418, P-00147419, PE-00028254)

CHINA (Sichuan, Xizang, Yunnan*); **BHUTAN, NEPAL**

Evidence: morphology

S: *Thalictrum jilongense* W. T. Wang (Xizang Chinese Trad. Med. Exped. 309, holotype: PE-0450478; isotype: HNWP); *Thalictrum tenuicaule* W. T. Wang (Y. Yang & al. GGS181, holotype: PE-02293705; isotype: PE-02293702)

Thalictrum leuconotum Franch. [**Typification**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum jilongense* and *T. tenuicaule* (Ranunculaceae), Described from China, Are Both Merged with *T. leuconotum*. *Phytotaxa* [J] 509(2): 168-184. [E] 2021: [172]. doi: 10.11646/phytotaxa.509.2.2

TYPE: J. M. Delavay 2854 (lectotype: P-00147417; isolectotype: K-000694044, MPU-011550, NAS-00070702, NY-00353658, P-00147418, P-00147419, PE-00028254)

CHINA (Sichuan, Xizang, Yunnan*); **BHUTAN, NEPAL**

Evidence: morphology

Thalictrum megalostigma (B. Boivin) W. T. Wang [**New Synonyms**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum kangdingense* (Ranunculaceae), a New Synonym of *T. megalostigma* from China. *Phytotaxa* [J] 498(2): 87-103. [E] 2021: [88]. doi: 10.11646/phytotaxa.498.2.2

TYPE: W. P. Fang 3619 (holotype: GH-00038599; isotype: E-00386259, K-000694181, NAS-00186902, P-00145842, US-00103795)

CHINA (Gansu, Sichuan*)

Evidence: morphology

S: *Thalictrum kangdingense* W. T. Wang (X.Y. Zhu & al. GG226, holotype: PE-02293701)

Thalictrum minshanicum Y. P. Zeng, Q. Yuan & Q. E. Yang [**New Species**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum minshanicum* and *T. pseudoramosum* (Ranunculaceae), Two New Species from China. *Phytotaxa* [J] 502(2): 133-148. [E] 2021: [133]. doi: 10.11646/phytotaxa.502.2.2

TYPE: Y. P. Zeng & Q. L. Huang 337 (holotype: IBSC; isotype: CDBI, IBSC, PE)

CHINA (Gansu, Sichuan*)

IUCN: DD; **Evidence:** morphology

Thalictrum nanhuaense Y. P. Zeng, Q. Yuan & Q. E. Yang [**New Species**]

ZENG You-Pai, YUAN Qiong, YANG Qin-er. *Thalictrum nanhuaense* (Ranunculaceae), a New Species from Central Yunnan, China. *Phytotaxa* [J] 479(1): 121-128. [E] 2021: [121]. doi: 10.11646/phytotaxa.479.1.10

TYPE: Y. P. Zeng & Q. L. Huang 460 (holotype: IBSC; isotype: IBSC, KUN, PE)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology

Thalictrum przewalskii Maxim. [**New Synonyms**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. Clarification of Some Imperfectly Understood Characters in the Chinese Species *Thalictrum przewalskii* (Ranunculaceae), with Reduction of *T. lasiogynum* and *T. latistylum* to Its Synonymy. *Phytotaxa* [J] 511(3): 187-210. [E] 2021: [202]. doi: 10.11646/phytotaxa.511.3.1

TYPE: N. M. Przewalski 348 (holotype: LE-01014048; isotype: LE-01014049)

CHINA (Beijing, Chongqing, Gansu*, Hebei, Henan, Hubei, Hunan, Nei Mongol, Ningxia, Qinghai, Shaanxi, Shanxi, Sichuan)

Evidence: morphology

S: *Thalictrum lasiogynum* W. T. Wang (L. M. Lu 2008337, holotype: PE-02108941); *Thalictrum latistylum* W. T. Wang (Baishuijiang Exped. 454, holotype: PE-02108940); *Thalictrum rockii* Boivin (J. F. Rock 13054, holotype: GH-00038614)

Thalictrum pseudoramosum Y. P. Zeng, Q. Yuan & Q. E. Yang [**New Species**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum minshanicum* and *T. pseudoramosum* (Ranunculaceae), Two New Species from China. *Phytotaxa* [J] 502(2): 133-148. [E] 2021: [134]. doi: 10.11646/phytotaxa.502.2.2

TYPE: Y. P. Zeng & Q. L. Huang 326 (holotype: IBSC; isotype: CDBI, IBSC, PE)

CHINA (Gansu, Sichuan*)

IUCN: DD; **Evidence:** morphology

Thalictrum sect. Omalophysa Turcz. ex Fisch. & C. A. Mey. [**New Synonyms**]

ZENG You-pai, YUAN Qiong, YANG Qin-er. Clarification of Some Imperfectly Understood Characters in the Chinese Species *Thalictrum przewalskii* (Ranunculaceae), with Reduction of *T. lasiogynum* and *T. latistylum* to Its Synonymy. *Phytotaxa* [J] 511(3): 187-210. [E] 2021: [201]. doi: 10.11646/phytotaxa.509.2.2

TYPE: *Thalictrum sparsiflorum* Turcz. ex Fisch. & C. A. Mey.

Evidence: morphology

S: *Thalictrum* sect. *Platystylus* W. T. Wang (type: *Thalictrum latistylum* W. T. Wang)

Thalictrum uncinulatum Franch. ex Lecoy. [New Synonyms]
ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum brevisericeum* var. *pentagynum* (Ranunculaceae), a New Synonym of *T. uncinulatum* from China. *Phytotaxa* [J] 497(2): 97-112. [E] 2021: [106]. doi: 10.11646/phytotaxa.497.2.3

TYPE: A. David s.n. (lectotype: P-00155151; isoelectotype: P-00155152)

CHINA (Sichuan*)

Evidence: morphology

S: *Thalictrum brevisericeum* W. T. Wang & S. H. Wang var. *pentagynum* W. T. Wang (L. Gu & Z.R. Li 1331, holotype: A-00353817; isotype: A-01005797, CDBI)

Thalictrum uncinulatum Franch. ex Lecoy. [Typification]

ZENG You-pai, YUAN Qiong, YANG Qin-er. *Thalictrum brevisericeum* var. *pentagynum* (Ranunculaceae), a New Synonym of *T. uncinulatum* from China. *Phytotaxa* [J] 497(2): 97-112. [E] 2021: [106]. doi: 10.11646/phytotaxa.497.2.3

TYPE: A. David s.n. (lectotype: P-00155151; isoelectotype: P-00155152)

CHINA (Sichuan*)

Evidence: morphology

Resedaceae 木樨草科

Stixis yingjiangensis J. Y. Shen 盈江斑果藤 [New Species]

SHEN Jian-yong, MA Xing-da, GONG Qiang-bang, HUANG Guo-hui, YANG Xue-lian, SHI Ji-pu. *Stixis yingjiangensis*, a New Species of Resedaceae from Yunnan, China. *Taiwania* [J] 66(3): 326-331. [E] 2021: [327]. doi: 10.6165/tai.2021.66.326

TYPE: J. Y. Shen & X. D. Ma 2395 (holotype: HITBC; isotype: HIB, HITBC)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; rbcL, matK

Rhamnaceae 鼠李科

Fenghwaia G. T. Wang & R. J. Wang 封怀木属 [New Genus]
WANG Gang-tao, SHU Jiang-ping, JIANG Guo-bin, CHEN Yu-qiang, WANG Rui-jiang. Morphology and Molecules Support the New Monotypic Genus *Fenghwaia* (Rhamnaceae) from South China. *PhytoKeys* [J] 171: 25-35. [E] 2021: [27]. doi: 10.3897/phytokeys.171.57277

TYPE: *Fenghwaia gardeniicarpa* G. T. Wang & R. J. Wang

Evidence: morphology; ITS; trnL-F

Fenghwaia gardeniicarpa G. T. Wang & R. J. Wang 封怀木 [New Species]

WANG Gang-tao, SHU Jiang-ping, JIANG Guo-bin, CHEN Yu-qiang, WANG Rui-jiang. Morphology and Molecules Support the New Monotypic Genus *Fenghwaia* (Rhamnaceae) from South China. *PhytoKeys* [J] 171: 25-35. [E] 2021: [29]. doi: 10.3897/phytokeys.171.57277

TYPE: R. J. Wang, G. T. Wang & G. B. Jiang 1228 (holotype: IBSC-0849961; isotypes: CSH-0171170; IBK-00421260; IBSC-0849962; IBSC-0849963; KUN-1347949; PE-02251842); Y. Q. Chen & G. T. Wang 1223 (paratype: IBSC); Y. Q. Chen & G. T. Wang 1224 (paratype: IBSC); Y. Q. Chen & G. T. Wang 1225 (paratype: IBSC); Y. Q. Chen & G. T. Wang 1226 (paratype: IBSC); R. J. Wang & Y. Y. Liu 5928 (paratype: IBSC); H. G. Ye & al. GDS-00849 (paratype: IBSC)

CHINA (Guangdong*)

IUCN: NT; **Evidence:** morphology; ITS; trnL-F

Rhamnus nigricans Hand.-Mazz. [New Synonyms]

YANG Yi, PENG Hua, SUN Hang. Taxonomic Revision of *Sageretia* (Rhamnaceae) from China I: Identities of *S. lucida*, *S. thea* var. *cordiformis* and *S. yunlongensis*, with the Description of a New Species *S. ellipsoidea*. *PhytoKeys* [J] 179: 13-28. [E] 2021: [15]. doi: 10.3897/phytokeys.179.64750

TYPE: Hand.-Mazz. 6311 (holotype: WU; isotype: A-00051422, K-000729152)

CHINA (Yunnan*)

Evidence: morphology

S: *Sageretia yunlongensis* G. S. Fan & L. L. Deng (Expedition Team 161, holotype: SWFC)

Sageretia cordiformis (Y. L. Chen & P. K. Chou) Yi Yang, H. Sun & H. Peng 心叶雀梅藤 [New Combination]

YANG Yi, PENG Hua, SUN Hang. Taxonomic Revision of *Sageretia* (Rhamnaceae) from China I: Identities of *S. lucida*, *S. thea* var. *cordiformis* and *S. yunlongensis*, with the Description of a New Species *S. ellipsoidea*. *PhytoKeys* [J] 179: 13-28. [E] 2021: [17]. doi: 10.3897/phytokeys.179.64750

TYPE: W. T. Wang 10496 (holotype: KUN-1207932; isotype: KUN-1207933)

CHINA (Yunnan*); LAOS

Evidence: morphology

B: *Sageretia thea* (Osbeck) M. C. Johnst. var. *cordiformis* Y. L. Chen & P. K. Chou

Sageretia ellipsoidea Yi Yang, H. Sun & H. Peng 椭圆雀梅藤 [New Species]

YANG Yi, PENG Hua, SUN Hang. Taxonomic Revision of *Sageretia* (Rhamnaceae) from China I: Identities of *S. lucida*, *S. thea* var. *cordiformis* and *S. yunlongensis*, with the Description of a New Species *S. ellipsoidea*. *PhytoKeys* [J] 179: 13-28. [E] 2021: [20]. doi: 10.3897/phytokeys.179.64750

TYPE: W. T. Tsang & K. C. Wong 2718 (holotype: IBSC-0404901; isotype: SYS-00086833); W. T. Tsang & K. C. Wong 2723 (paratype: IBSC-0404896); W. T. Tsang & K. C. Wong 2479 (paratype: SYS-0008683)

CHINA (Fujian, Guangdong*, Guangxi, Hainan)

Evidence: morphology

Sageretia lucida Merr. [New Recognition]

YANG Yi, PENG Hua, SUN Hang. Taxonomic Revision of *Sageretia* (Rhamnaceae) from China I: Identities of *S. lucida*, *S. thea* var. *cordiformis* and *S. yunlongensis*, with the Description of a New Species *S. ellipsoidea*. *PhytoKeys* [J] 179: 13-28. [E] 2021: [25]. doi: 10.3897/phytokeys.179.64750

TYPE: W. T. Tsang & K. C. Wong 3260 (holotype: UC-319815; isotype: A-00051501, SYS-00095840, US-00094394)

CHINA (Guangdong*)

Evidence: morphology

S: *Sageretia henryi* J. R. Drumm. & Sprague

Rosaceae 蔷薇科

Cerasus wuyiensis (X. R. Wang, X. G. Yi & C. P. Xie) Z. H. Chen, W. Y. Xie & Z. P. Lei 武夷红樱 [New Combination]

LI Gen-you, CHEN Xian-zhi, XIE Wen-yuan, LEI Zu-pei, CHEN Zheng-hai. New Notes on Seed Plant in East China. *Journal of Zhejiang Forestry Science and Technology* [J] 41(4):

82-85. [C] 2021: [84]. doi: 10.3969/j.issn.1001-3776.2021.04.013

TYPE: X. G. Yi 30604 (holotype: NFU)

CHINA (Fujian*)

Evidence: morphology

B: *Cerasus campanulata* (Maxim.) Masam. & S. Suzuki var. *wuyiensis* X. R. Wang, X. G. Yi & C. P. Xie

Eriobotrya prionophylla Franch. [Typification]

IDREES Muhammad, PATHAK Mitra Lal, ZHANG Zhi-yong, GAO Xin-fen. Typification of Names in Eriobotrya, Mespilus, Opa and Photinia (Rosaceae). *Phytotaxa* [J] 487(2): 164-170. [E] 2021: [167]. doi: 10.11646/phytotaxa.487.2.7

TYPE: Delavay 3545 (lectotype: P-03342590; isolectotype: K-000758255, LE-01015176)

CHINA (Yunnan*)

Evidence: morphology

Fragaria emeiensis J. J. Lei [New Species]

QIAO Qin, EDGER Patrick P., XUE Li, QIONG La, LU Jie, ZHANG Yi-chen, CAO Qiang, Yocca Alan E., PLATTS Adrian E., KNAPP Steven J., MONTAGU Marc Van, PEER de Yves Van, LEI Jia-jun, ZHANG Ti-cai. Evolutionary History and Pan-genome Dynamics of Strawberry (*Fragaria* spp.). *Proceedings of the National Academy of Sciences of the United States of America* [J] 118(45, e210543118, Appendix 1): 1-11 (App. 1-28). [E] 2021: [7]. doi: doi:10.1073/pnas.2105431118

TYPE: Jia J. Lei EM35 (holotype: YUKU-02074626; isotype: YUKU-02074625)

CHINA (Sichuan*)

Evidence: morphology; genomes

Photinia atropurpurea P. L. Chiu ex Z. H. Chen & X. F. Jin 黑果石楠 [New Species]

LEI Zu-pei, CHEN Zheng-hai, ZHENG Fang-dong, MEI Xu-dong, XIE Wen-yuan, JIN Xiao-feng. *Photinia atropurpurea* (Rosaceae), A New Species of Photinia Lindl. from Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(4): 394-397. [C] 2021: [393]. doi: 10.19926/j.cnki.issn.1674-232X.2021.04.010

TYPE: Z. H. Chen, Z. P. Lei & W. Y. Xie TS20050316 (holotype: ZM; isotype: ZM); Exped. Pl. Zhejiang 23304 (paratype: HHBG, NAS); Exped. Pl. Zhejiang 23410 (paratype: HHBG, PE, NAS); S. Y. Zhang 6998 (paratype: HZ, PE); S. Y. Zhang 3549 (paratype: HHBG, NAS, PE, JJF, IBSC); Z. H. Chen & F. Lin PY19110303 (paratype: ZM); Z. H. Chen, Z. P. Lei & W. Y. Xie TS20050202 (paratype: ZM); s.coll. 24726 (paratype: HHBG, NAS); s.coll. 25034 (paratype: HHBG, NAS); s.coll. 25429 (paratype: HHBG, NAS); s.coll. 23535 (paratype: NAS); Z. H. Chen, Z. P. Lei & W. Y. Xie TS20050315 (paratype: ZM); Z. H. Chen, Z. P. Lei & W. Y. Xie TS20050115 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Photinia chiuana Z. H. Chen, F. Chen & X. F. Jin 裘氏石楠 [New Species]

CHEN Zheng-hai, CHEN Lin, CHEN Feng, XIE Wen-yuan, JIN Xiao-fen. *Photinia chiuana* (Rosaceae), a New Species from China — with Status Confirmation of *Photinia lasiopetala*. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(1): 29-33 (40). [C] 2021: [32]. doi: 10.19926/j.cnki.issn.1674-232X.2021.01.005

TYPE: Z. H. Chen, L. Chen & Q. S. Lin QJ19052001 (holotype: ZM; isotype: ZM); Z. H. Chen, L. Chen & Q. S. Lin QJ19052002 (paratype: ZM); Z. H. Chen & Q. S. Lin QJ19082506 (paratype: ZM); Z. H. Chen & Q. S. Lin J19112301 (paratype: ZM); Z. H. Chen & Q. S. Lin QJ19112303 (paratype: ZM); Z. H. Chen, Q. S. Lin & S. L. Zhu QJ19112301 (paratype: ZM); Z. H. Chen, R. H. Wang & S. P. Wang JS19112401 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Photinia griffithii Decne. [Typification]

IDREES Muhammad, PATHAK Mitra Lal, ZHANG Zhi-yong, GAO Xin-fen. Typification of Names in Eriobotrya, Mespilus, Opa and Photinia (Rosaceae). *Phytotaxa* [J] 487(2): 164-170. [E] 2021: [167]. doi: 10.11646/phytotaxa.487.2.7

TYPE: Griffith 2087 (lectotype: P-02143170; isolectotype: K-000758185, L-0019505, M-0213887)

CHINA (Yunnan*)

Evidence: morphology

Photinia lasiopetala Hayata 毛瓣石楠 [New Recognition]

CHEN Zheng-hai, CHEN Lin, CHEN Feng, XIE Wen-yuan, JIN Xiao-fen. *Photinia chiuana* (Rosaceae), a New Species from China — with Status Confirmation of *Photinia lasiopetala*. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(1): 29-33 (40). [C] 2021: [31]. doi: 10.19926/j.cnki.issn.1674-232X.2021.01.005

TYPE: B. Hayata s.n. (holotype: TI; isotype: IBSC-0004374; PH-00067378)

CHINA (Taiwan*)

Evidence: morphology

S: *Photinia serrulata* Siebold & Zucc. var. *lasiopetala* (Hayata) K. C. Kuan

Potentilla sunhangii D. G. Zhang, Heng C. Wang & T. Deng [New Species]

ZHANG Hua-Jie, ZHANG Dai-Gui, FENG Tao, LIU Qun, YANG Jing-Yuan, CHEN LI, WANG Heng-Chang, DENG Tao. A New Species of *Potentilla* (Potentilleae, Rosaceae) from Central China, with Reference to Molecular and Morphological Evidence. *Phytotaxa* [J] 480(2): 185-194. [E] 2021: [188]. doi: 10.11646/phytotaxa.480.2.7

TYPE: Q. Liu wlc05 (holotype: KUN-1498244; isotype: KUN-1498245)

CHINA (Hubei*)

Evidence: morphology; ITS, trnL-UAA, trnF-GAA

Pyrus koehnei C. K. Schneid. f. *roseiflorus* Z. H. Chen, H. F. Xu & F. G. Zhang 粉花柯氏梨 [New Form]

LEI Zu-pei, LIU Ju-lian, CHEN Lin, ZHANG Fang-gang, XIE Wen-yuan, CHEN Zheng-hai. New Materials of Rosaceae in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 274-279. [C] 2021: [277]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.009

TYPE: X. D. Mei, Z. H. Chen & L. Chen JN20032101 (holotype: ZM; isotype: ZM); Z. H. Chen & H. F. Xu JN19031303 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Rosa cymosa Tratt. var. *puberula* T. T. Yü & T. C. Ku 毛叶小果蔷薇 [New Synonyms]

CHEN Xiao-rong, ZHANG Fang-gang, XIE Wen-yuan, ZHANG Shui-li, CHEN Zheng-hai. Notes on the Seed Plant in Zhejiang Province (XII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 86-89. [C] 2021: [87]. doi: 10.3969/j.issn.1001-3776.2021.05.014

TYPE: P. C. Tsoong 4229 (holotype: PE-00203303; isotype: PE-00203302)

CHINA (Shaanxi*, Zhejiang)

Evidence: morphology

S: *Rosa cymosa* Tratt. var. *dapanshanensis* F. G. Zhang (F. G. Zhang 149, holotype: ZM)

Rosa luciae Franch. & Rochebr. 光叶蔷薇 [New Synonyms]

CHEN Xiao-rong, ZHANG Fang-gang, XIE Wen-yuan, ZHANG Shui-li, CHEN Zheng-hai. Notes on the Seed Plant in Zhejiang Province (XII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 86-89. [C] 2021: [87]. doi: 10.3969/j.issn.1001-3776.2021.05.014

TYPE: P. A. L. Savatier s.n. (holotype: A-00032711)

CHINA (Zhejiang); JAPAN*

Evidence: morphology

S: *Rosa daishanensis* T. C. Ku (L. Q. Qiu & R. L. Lu 9603, holotype: PE-00020702)

Rosa multiflora Thunb. 野蔷薇 [New Synonyms]

CHEN Xiao-rong, ZHANG Fang-gang, XIE Wen-yuan, ZHANG Shui-li, CHEN Zheng-hai. Notes on the Seed Plant in Zhejiang Province (XII). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 86-89. [C] 2021: [88]. doi: 10.3969/j.issn.1001-3776.2021.05.014

TYPE: Thunberg s.n. (holotype: ?); Thunberg s.n. (syntype: L-0059750)

CHINA (Zhejiang); JAPAN*

Evidence: morphology

S: *Rosa uniflora* Buz. subsp. *adenopetala* L. Qian & X. F. Jin (HHBG Exped. 3628, holotype: PE)

Rubus argutus Link 尖齿黑莓 [New Record]

ZHANG Si-yu, CHEN Yong-bing, HUANG Ying, ZHANG Jia-xiang, SHAO Jian-wen. *Rubus argutus* Link (Rosaceae), a New Recorded Naturalized Plant in China. *Plant Quarantine* [J] 35(2): 68-72. [C] 2021: [68]. doi: 10.19662/j.cnki.issn1005-2755.2020.00.036

CHINA (Anhui); [AMERICA]

Evidence: morphology

Rubus chenmouanus Z. H. Chen, F. G. Zhang & G. K. Chen 陈谋悬钩子 [New Species]

CHEN Gao-kun, ZHANG Fang-gang, XIE Wen-yuan, CHEN Feng, CHEN Zheng-hai. *Rubus Chenmouanus* (Rosaceae), a New Species from Zhejiang. *Journal of Wenzhou University (Natural Science Edition)* [J] 42(1): 59-62. [C] 2021: [59]. doi: 10.3875/j.issn.1674-3563.2021.01.008

TYPE: Z. H. Chen & F. G. Zhang ZJ19101801 (holotype: ZM; isotype: ZM); Z. H. Chen & G. K. Chen ZJ19090901 (paratype: ZM); Z. H. Chen & G. K. Chen ZJ19090902 (paratype: ZM); Z. H. Chen & G. K. Chen ZJ19090903 (paratype: ZM); Z. H. Chen, G. Y. Li & G. K. Chen ZJ19030701 (paratype: ZM); Z. H. Chen & F. G. Zhang ZJ19101802 (paratype: ZM); Z. H. Chen & F. G. Zhang ZJ19101803 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Rubus linearifolius Hayata f. *sempilens* Z. P. Lei, W. Y. Xie & Z. H. Chen 重瓣铅山悬钩子 [New Form]

LEI Zu-pei, LIU Ju-lian, CHEN Lin, ZHANG Fang-gang, XIE Wen-yuan, CHEN Zheng-hai. New Materials of Rosaceae in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 274-279. [C] 2021: [278]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.009

TYPE: X. D. Mei, Z. H. Chen & L. Chen JN20032101 (holotype: ZM; isotype: ZM); Z. H. Chen & H. F. Xu JN19031303 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Rubus suichangensis (P. L. Chiu ex L. Qian & X. F. Jin) Z. H. Chen & Ju L. Liu 遂昌悬钩子 [New Combination]

LEI Zu-pei, LIU Ju-lian, CHEN Lin, ZHANG Fang-gang, XIE Wen-yuan, CHEN Zheng-hai. New Materials of Rosaceae in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 274-279. [C] 2021: [276]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.009

TYPE: Zhejiang Bot. Exped. 25845 (holotype: PE; isotype: HTC)

CHINA (Zhejiang*)

Evidence: morphology

B: *Rubus sumatranus* Miq. var. *suichangensis* P. L. Chiu ex L. Qian & X. F. Jin

Rubus suichangensis (P. L. Chiu ex L. Qian & X. F. Jin) Z. H. Chen & Ju L. Liu 遂昌悬钩子 [New Synonyms]

LEI Zu-pei, LIU Ju-lian, CHEN Lin, ZHANG Fang-gang, XIE Wen-yuan, CHEN Zheng-hai. New Materials of Rosaceae in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 274-279. [C] 2021: [276]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.009

TYPE: Zhejiang Bot. Exped. 25845 (holotype: PE; isotype: HTC)

CHINA (Zhejiang*)

Evidence: morphology

S: *Rubus tsangii* Merr. var. *suichangensis* (P. L. Chiu ex L. Qian & X. F. Jin) Z. H. Chen & F. Y. Zhang

Sorbaria kirilowii (Regel) Maxim. var. *arborea* (C. K. Schneid.) J. H. Song & S. P. Hong [New Combination]

SONG Jun-ho, HONG Suk-pyo. A Taxonomic Revision of the Genus *Sorbaria* (Rosaceae) with a New Infrageneric Classification Based on Morphology, Micromorphology, and Palynology. *Phytotaxa* [J] 487(1): 1-25. [E] 2021: [20]. doi: 10.11646/phytotaxa.487.1.1

TYPE: Henry 1813 (lectotype: K-00040915); Henry 6458 (syntype: K-000639496); Henry 4705 (syntype: A)

CHINA (Hubei*)

Evidence: morphology

B: *Sorbaria arborea* C. K. Schneid.

Sorbaria kirilowii (Regel) Maxim. var. *dubia* (C. K. Schneid.) J. H. Song & S. P. Hong [New Combination]

SONG Jun-ho, HONG Suk-pyo. A Taxonomic Revision of the Genus *Sorbaria* (Rosaceae) with a New Infrageneric Classification Based on Morphology, Micromorphology, and Palynology. *Phytotaxa* [J] 487(1): 1-25. [E] 2021: [22]. doi: 10.11646/phytotaxa.487.1.1

TYPE: Pratt 709 (lectotype: K-000639498)

CHINA (Sichuan, Xizang, Yunnan)

Evidence: morphology

B: *Sorbaria sorbifolia* (L.) A. Braun var. *dubia* C. K. Schneid.

Sorbaria sect. *Kirilowiana* J. H. Song & S. P. Hong [New Section]

SONG Jun-ho, HONG Suk-pyo. A Taxonomic Revision of the Genus *Sorbaria* (Rosaceae) with a New Infrageneric Classification Based on Morphology, Micromorphology, and Palynology. *Phytotaxa* [J] 487(1): 1-25. [E] 2021: [6]. doi: 10.11646/phytotaxa.487.1.1

TYPE: *Sorbaria kirilowii* (Regel) Maxim.

Evidence: morphology

Rubiaceae 茜草科

Hedyotis howii G. B. Jiang & R. J. Wang [New Species]

JIANG Guo-bin, WANG Rui-jiang. Two New Species of *Hedyotis* L. (Rubiaceae) from Hainan, China. *Nordic Journal of Botany* [J] 39(e02934): 1-8. [E] 2021: [4]. doi: 10.1111/njb.02934

TYPE: G. B. Jiang & X. X. Zhou 1133 (holotype: IBSC-0857182; isotype: IBSC); Z. X. Li & F. W. Xing 4107 (paratype: IBSC-0441695, IBSC-0441702); H. Y. Liang 63229 (paratype: IBSC-0441701, PE-00792707); S. K. Lau 27135 (paratype: IBK-00101082, IBSC-0441694, PE-00737110); R. J. Wang & F. Su AP0176 (paratype: IBSC); F. C. How 70141 (paratype: HK-2343; PE-00737111); G. B. Jiang, D. Liang & M. D. Yuan 1510 (paratype: IBSC); G. B. Jiang, D. Liang & M. D. Yuan 1511 (paratype: IBSC); Z. X. Li 2580 (paratype: IBSC-0441696); H. Y. Liang 63021 (paratype: IBSC-0441701); R. J. Wang 5285 (paratype: IBSC)

CHINA (Hainan*)

IUCN: LC; **Evidence:** morphology; ITS, petD, rps16, trnH-psbA

Hedyotis interrupta G. B. Jiang & R. J. Wang [New Species]

JIANG Guo-bin, WANG Rui-jiang. Two New Species of *Hedyotis* L. (Rubiaceae) from Hainan, China. *Nordic Journal of Botany* [J] 39(e02934): 1-8. [E] 2021: [5]. doi: 10.1111/njb.02934

TYPE: G. B. Jiang & X. X. Zhou 1136-1 (holotype: IBSC-0857183; isotype: IBSC); G. B. Jiang & X. X. Zhou 1136-2 (paratype: IBSC); K. S. Chow 78389 (paratype: IBSC-441195, PE-00736967); H. Y. Liang 68616 (paratype: IBSC-508048); S. K. Lau 5082 (paratype: IBSC-0508045); H. Y. Liang 62576 (paratype: IBSC-0508049, PE-00737116); H. Y. Liang 62709 (paratype: IBSC-0508046, PE-00737116); H. Y. Liang 62446 (paratype: IBSC-508047, PE-00737115)

CHINA (Hainan*)

IUCN: LC; **Evidence:** morphology; ITS, petD, rps16, trnH-psbA

Hedyotis puberulifolia Y. D. Xu & R. J. Wang [New Species]

XU Yi-da, WANG Rui-jiang. *Hedyotis puberulifolia* (Rubiaceae), a New Species from Guangdong, China. *Phytotaxa* [J] 502(2): 160-168. [E] 2021: [161]. doi: 10.11646/phytotaxa.502.2.4

TYPE: R. J. Wang & Y. D. Xu 6230 (holotype: IBSC-0858301; isotype: IBSC-0859880); X. F. Zeng ZXF16000 (paratype: CZH); R. J. Wang & Y. D. Xu 6216 (paratype: IBSC); R. J. Wang & Y. D. Xu 6228 (paratype: IBSC); R. J. Wang & Y. D. Xu 6229 (paratype: IBSC); F. A. McClure 7199 (paratype: SYS); H. G. Ye 4271 (paratype: IBSC); X. F. Zeng ZXF33688 (paratype: CZH); X. F. Zeng ZXF33502 (paratype: CZH); X. G. Li 201048

(paratype: IBSC); H. G. Ye 4115 (paratype: IBSC); X. F. Zeng ZXF7255 (paratype: CZH)

CHINA (Guangdong*)

IUCN: LC; **Evidence:** morphology; ITS, petD

Hedyotis pubirachis Y. D. Xu & R. J. Wang [New Species]

XU Yi-da, WANG Rui-jiang. *Hedyotis pubirachis* (Rubiaceae), a New Species from Guangdong, China. *Nordic Journal of Botany* [J] 39(e03264): 1-6. [E] 2021: [3]. doi: 10.1111/njb.03264

TYPE: Y. D. Xu & F. Su AP0147 (holotype: IBSC-0858380; isotype: IBSC-0858379); Z. Huang 41823 (paratype: IBK, IBSC, SYS); Z. Huang 38591 (paratype: IBK, IBSC); K. Liang 69555 (paratype: CANT); Zhanjiang Exped. 4277 (paratype: IBSC); N. Liu & al. 659 (paratype: IBSC); H. G. Ye 6042 (paratype: IBSC); H. G. Ye 6312 (paratype: IBSC); B. Q. Xu & H. F. Yan Xu0031 (paratype: IBSC); D. Liang, Y. D. Xu & G. B. Jiang WP1352 (paratype: IBSC); D. Liang, Y. D. Xu & G. B. Jiang WP1371 (paratype: IBSC); Y. D. Xu & F. Su AP0145 (paratype: IBSC); Y. D. Xu & F. Su AP0146 (paratype: IBSC); Y. D. Xu & F. Su AP0148 (paratype: IBSC)

CHINA (Guangdong*)

IUCN: LC; **Evidence:** morphology; ITS, petD, rps16, trnH-psbA, trnL-F

Nertera granadensis (Mutis ex L. f.) Druce [Excluded from China]

CHEN Wei-chih, WANG Chih-chiang, CHANG Kun-cheng. Re-appraisal of *Nertera* (Rubiaceae) in Taiwan. *PhytoKeys* [J] 182: 83-91. [E] 2021: [90]. doi: 10.3897/phytokeys.182.70685

COLOMBIA

Evidence: morphology

Nertera nigricarpa Hayata [Correction]

CHEN Wei-chih, WANG Chih-chiang, CHANG Kun-cheng. Re-appraisal of *Nertera* (Rubiaceae) in Taiwan. *PhytoKeys* [J] 182: 83-91. [E] 2021: [86]. doi: 10.3897/phytokeys.182.70685

CHINA (Taiwan)

Evidence: morphology

A: *Nertera granadensis* auct. non Druce: Liu & Yang, Fl. Taiwan

Second 4: 306. p.p.

Nertera taiwaniana Masam. [Correction]

CHEN Wei-chih, WANG Chih-chiang, CHANG Kun-cheng. Re-appraisal of *Nertera* (Rubiaceae) in Taiwan. *PhytoKeys* [J] 182: 83-91. [E] 2021: [88]. doi: 10.3897/phytokeys.182.70685

CHINA (Taiwan)

Evidence: morphology

A: *Nertera granadensis* auct. non Druce: Liu & Yang, Fl. Taiwan 2nd 4: 306. p.p.; Chen & Taylor, Fl. China 19: 257. 2011.; *Nertera depressa* auct. non Banks & Sol. ex Gaertn: Yamamoto, Journ. Soc. Trop. Agr. 10: 276. 1938, 12: 24. 1940; Chao, Fl. Taiwan 4: 315. p.p.; W. C. Ko, Fl. Reipubl. Popularis Sin. 71 (2): 164. 1999.

Ophiorrhiza caudipetala Deb & Mondal 尾瓣蛇根草 [Correction]

HU Yan-hua, SONG Xiao-fei, LIU Quan-ru, WU Lei. Critical Notes on *Ophiorrhiza gracilis* Kurz (Rubiaceae) from China. *Journal of Tropical and Subtropical Botany* [J] 29(6): 678-682. [E] 2021: [679]. doi: 10.11926/jtsb.4248

TYPE: C. B. Clarke 44072 (holotype: CAL; isotype: A, BM, E, K-000173151)

CHINA (Yunnan); **INDIA***

IUCN: NT; **Evidence**: morphology

A: *Ophiorrhiza gracilis* auct. non Kurz: Luo in Bull. Bot. Res., Harbin 10(2): 77. 1990 & in Fl. Reipubl. Popularis Sin. 71(1): 169. 1999; Chen & Taylor in Fl. China. 19: 269. 2011; Wang & al. Species Catal. China. 1: 1388. 2019.

Ophiorrhiza caudipetala Deb & Mondal 尾瓣蛇根草 [New Record]

HU Yan-hua, SONG Xiao-fei, LIU Quan-ru, WU Lei. Critical Notes on *Ophiorrhiza gracilis* Kurz (Rubiaceae) from China. *Journal of Tropical and Subtropical Botany* [J] 29(6): 678-682. [E] 2021: [679]. doi: 10.11926/jtsb.4360

TYPE: C. B. Clarke 44072 (holotype: CAL; isotype: A, BM, E, K-000173151)

CHINA (Yunnan); **INDIA***

IUCN: NT; **Evidence**: morphology

Ophiorrhiza nanlingensis L. Wu & Q. R. Liu [New Species]

HU Yan-hua, LIU Wen-jian, SONG Xiao-fei, DENG Guo-xing, NAKAMURA Koh, WU Lei, LIU Quan-ru. A Discussion of the Relationship between *Ophiorrhiza exigua* and *O. michelloides* (Rubiaceae) with the Description of a New Species. *Nordic Journal of Botany* [J] 39(e03138): 1-6. [E] 2021: [2]. doi: 10.1111/njb.03138

TYPE: L. Wu 4275 (holotype: BNU; isotype: CSFI, PE); S. S. Meng MS071 (paratype: BNU); L. Wu & al. 8315 (paratype: CSFI); L. Wu & al. 8387 (paratype: CSFI); L. Wu & al. 8556 (paratype: CSFI); W. J. Liu & al. ms462 (paratype: CSFI); Mangshan Team ms1575 (paratype: CSFI); L. Deng 5853 (paratype: IBSC); Y. Liu & al. 0088-0091 (paratype: SYS); L. Wu & Y. Tong 3176 (paratype: BNU, CSFI); L. Wu & Y. Tong 3208 (paratype: BNU, CSFI, CSH)

CHINA (Hunan, Guangdong*)

IUCN: LC; **Evidence**: morphology

Ophiorrhiza nonggangensis Y. F. Deng [New Name]

DENG Yun-fei. *Ophiorrhiza nonggangensis*, a Replacement Name for Illegitimate Name *O. loana* (R. J. Wang) Razafim. & Rydin (Rubiaceae). *Phytotaxa* [J] 513(2): 169-170. [E] 2021: [169]. doi: 10.11646/phytotaxa.513.2.9

TYPE: R. J. Wang 390 (holotype: IBSC-0742213; isotype: IBSC-0742214, IBSC-0742215, IBSC-0742216, MO-2049205)

CHINA (Guangxi*)

Evidence: morphology

R: *Spiradiclis loana* R. J. Wang

Parainvolucrella R. J. Wang 拟合叶耳草属 [New Genus]

XU Yi-da, YUAN Ming-deng, WANG Rui-jiang. Morphology and Molecules Support the New Monotypic Genus *Parainvolucrella* (Rubiaceae) from Asia. *PhytoKeys* [J] 171: 53-64. [E] 2021: [57]. doi: 10.3897/phytokeys.180.67624

TYPE: *Parainvolucrella scabra* (Wall. ex Kurz) M. D. Yuan & R. J. Wang

Evidence: morphology; ITS, petD, rps16, trnH-psbA, trnL-F

Parainvolucrella scabra (Wall. ex Kurz) M. D. Yuan & R. J. Wang 拟合叶耳草 [New Combination]

XU Yi-da, YUAN Ming-deng, WANG Rui-jiang. Morphology and Molecules Support the New Monotypic Genus *Parainvolucrella* (Rubiaceae) from Asia. *PhytoKeys* [J] 171: 53-64. [E] 2021: [57]. doi: 10.3897/phytokeys.180.67624

TYPE: Wall. Cat. 880 (holotype: CAL; isotype: G-00436284, G-00436285, K-001110148, K-001110149, K-000031881)

CHINA (Guangxi); **BANGLADESH, INDIA, MYANMAR*, THAILAND, VIETNAM**

Evidence: morphology; ITS, petD, rps16, trnH-psbA, trnL-F

B: *Hedyotis scabra* Wall. ex Kurz

Parainvolucrella scabra (Wall. ex Kurz) M. D. Yuan & R. J. Wang 拟合叶耳草 [New Record]

XU Yi-da, YUAN Ming-deng, WANG Rui-jiang. Morphology and Molecules Support the New Monotypic Genus *Parainvolucrella* (Rubiaceae) from Asia. *PhytoKeys* [J] 171: 53-64. [E] 2021: [57]. doi: 10.3897/phytokeys.180.67624

TYPE: Wall. Cat. 880 (holotype: CAL; isotype: G-00436284, G-00436285, K-001110148, K-001110149, K-000031881)

CHINA (Guangxi); **BANGLADESH, INDIA, MYANMAR*, THAILAND, VIETNAM**

Evidence: morphology; ITS, petD, rps16, trnH-psbA, trnL-F

Spiradiclis detianensis L. Wu, Y. Feng Huang & Z. J. Wen 德天螺序草 [New Species]

WEN Zhao-jie, HUANG Yun-fen, HU Yan-hua, NGUYEN Khang Sinh, WU Lei. *Spiradiclis detianensis* (Rubiaceae, Ophiorrhizeae), a New Species from Southwestern Guangxi, China. *PhytoKeys* [J] 184: 103-110. [E] 2021: [105]. doi: 10.3897/phytokeys.184.69886

TYPE: Z. J. Wen & G. F. Mou 18033001 (holotype: CSFI-069613; isotype: CSFI, IBK); Z. Q. Nong nqz0004 (paratype: CSFI); Y. S. Huang 9422 (paratype: IBK)

CHINA (Guangxi*)

IUCN: LC; **Evidence**: morphology

Spiradiclis repens L. Wu & Yan Liu 匍匐螺序草 [New Species]

LI Jian-ling, YUAN quan, LIU Yan, SONG Xiao-fei, PAN Bo, QU Chen-hui, WU Lei. Two New Species of *Spiradiclis* (Rubiaceae) from Limestone Areas in Southwestern China. *Nordic Journal of Botany* [J] 39(e02979): 1-8. [E] 2021: [2]. doi: 10.1111/njb.02979

TYPE: L. Wu & Z. J. Wen 18040601 (holotype: CSFI; isotype: IBK); H. J. Wei 2007051301 (paratype: IBK); Z. J. Wen WZJ1707031 (paratype: CSFI); Q. Yuan YQ20170731001 (paratype: IBK)

CHINA (Guangxi*)

IUCN: EN; **Evidence**: morphology

Spiradiclis reticulata L. Wu, Quan Yuan & Jian L. Li 网脉螺序草 [New Species]

LI Jian-ling, YUAN quan, LIU Yan, SONG Xiao-fei, PAN Bo, QU Chen-hui, WU Lei. Two New Species of *Spiradiclis* (Rubiaceae) from Limestone Areas in Southwestern China. *Nordic Journal of Botany* [J] 39(e02979): 1-8. [E] 2021: [6]. doi: 10.1111/njb.02979

TYPE: M. Q. Han & al. HMQ0002 (holotype: CSFI; isotype: IBK); C. Liu, J. D. Ya & Z. D. Han 19CS17992 (paratype: KUN)

CHINA (Yunnan*)

IUCN: EN; **Evidence**: morphology

Spiradiclis yuanyangensis Y. S. Chen, L. Wu & C. Liu 元阳螺序草 [New Species]

WU Lei, LIU Cheng, SONG Xiao-fei, CHEN You-sheng. *Spiradiclis yuanyangensis* (Rubiaceae), a New Species from

Yunnan, China. *Phytotaxa* [J] 522(4): 294-300. [E] 2021: [295]. doi: 10.11646/phytotaxa.522.4.3

TYPE: Y. S. Chen & al. YY1056 (holotype: CSFI-076276; isotype: IBSC); Cheng Liu & al. 20CS19498 (paratype: KUN, CSFI); Cheng Liu & Ming-Jian Feng BC210313 (paratype: KUN, CSFI)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Rutaceae 芸香科

Bergera unifolia C. L. Deng & F. J. Mou [New Species]

DENG Chong-ling, CHEN Chuan-wu, WU Xiao-xiao, CUONG Nguyen Manh, MOU Feng-juan. *Bergera unifolia* (Rutaceae), a New Species from Guangxi (China) Based on Morphological and Molecular Data. *Annales Botanici Fennici* [J] 58(4-6): 363-376. [E] 2021: [368]. doi: 10.5735/085.058.0423

TYPE: F. J. Mou 595 (holotype: SWFC; isotype: SWFC); C. L. Deng & C. W. Chen 001 (paratype: GASC); C. L. Deng & C. W. Chen 002 (paratype: GASC); C. L. Deng & C. W. Chen 003 (paratype: GASC)

CHINA (Guangxi*)

Evidence: morphology; ITS, trnL-F, atpB-rbcL, rbcL, matK, psbH-petB, psbA-trnH

Citrus pubinervia D. G. Zhang, Zu H. Xiang & Yu Wu 华中枳 [New Species]

WU Yu, LIU Qun, XIANG Zu-heng, ZHANG Dai-gui. *Citrus × pubinervia*, a New Natural Hybrid Species from Central China. *Phytotaxa* [J] 523(3): 239-246. [E] 2021: [243]. doi: 10.11646/phytotaxa.523.3.4

TYPE: D. G. Zhang 2019041001 (holotype: JIU; isotype: HNU)

CHINA (Hunan*)

Evidence: morphology; matK, rbcL-atpB, trnL-trnF, psbA-trnH

Sabiaceae 清风藤科

Meliosma platypoda Rehder & E. H. Wilson subsp. *jinhuaensis* Z. H. Chen, Jian S. Wang & W. Q. Lin 金华泡花树 [New Subspecies]

CHEN Feng, WANG Jian-sheng, LIN Wei-qi, XIE Wen-yuan, CHEN Zheng-hai. The Identity of *Meliosma platypoda* (Sabiaceae) and Its New Subspecies from Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(3): 269-273. [C] 2021: [271]. doi: 10.19926/j.cnki.issn.1674-232X.2021.03.008

TYPE: Z. H. Chen, J. S. Wang & W. Q. Lin WC19052303 (holotype: ZM; isotype: ZM); Z. H. Che, G. Y. Li & W. Q. Lin WC18111801 (paratype: ZM); Z. H. Chen WC19082603 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Salicaceae 杨柳科

Salix chekiangensis W. C. Cheng 浙江柳 [New Synonyms]

LI Gen-you, CHEN Xian-zhi, XIE Wen-yuan, LEI Zu-pei, CHEN Zheng-hai. New Notes on Seed Plant in East China. *Journal of Zhejiang Forestry Science and Technology* [J] 41(4): 82-85. [C] 2021: [83]. doi: 10.3969/j.issn.1001-3776.2021.04.013

TYPE: S. Chen 925 (holotype: PE; isotype: PE-00023831, SZ-00041391)

CHINA (Jiangsu, Zhejiang*)

Evidence: morphology

S: *Salix nankingensis* Z. Wang & S. L. Tung (Z. H. Pan & al. 51, holotype: NAS-00111886; isotype: NAS-00111887, NAS-00281518)

Salix mesnyi Hance var. *tsoongii* (W. C. Cheng) Z. H. Chen, W. Y. Xie & S. Q. Xu 钟氏柳 [New Combination]

CHEN Zheng-hai, CHEN Feng, XIE Wen-yuan, ZHANG Fen-yao, LI Gen-you. New Materials in flora of Zhejiang Province (II). *Journal of Zhejiang University (Science Edition)* [J] 48(1): 93-99. [C] 2021: [94]. doi: 10.3785/j.issn.1008-9497.2021.01.013

TYPE: P. Chin Tsoong 142 (holotype: PE-00023865; isotype: PE-00023864, PE-00023867, NAS-00070298)

CHINA (Zhejiang*)

Evidence: morphology

B: *Salix tsoongii* W. C. Cheng

Sapindaceae 无患子科

Acer buergerianum Miq. 三角槭 [New Synonyms]

CHEN Zheng-hai, XIE Wen-yuan, CHEN Feng, ZHU Yi-rong, JIN Xiao-feng. New Notes on *Acer* L. in Zhejiang (II). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3): 69-73. [C] 2021: [70]. doi: 10.3969/j.issn.1001-3776.2021.03.010

TYPE: Keiske s.n. (lectotype: L)

CHINA (Jiangxi, Zhejiang); JAPAN*

Evidence: morphology

S: *Acer buergerianum* Miq. var. *jiujiangense* Z. X. Yu (Z. X. Yu 8234, holotype: JXAU)

Acer buergerianum Miq. var. *horizontale* F. P. Metcalf. 平翅三角槭 [New Synonyms]

CHEN Zheng-hai, XIE Wen-yuan, CHEN Feng, ZHU Yi-rong, JIN Xiao-feng. New Notes on *Acer* L. in Zhejiang (II). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3): 69-73. [C] 2021: [70]. doi: 10.3969/j.issn.1001-3776.2021.03.010

TYPE: R. C. Ching 1620 (holotype: A; isotype: S, NA)

CHINA (Jiangxi, Zhejiang); JAPAN*

Evidence: morphology

S: *Acer buergerianum* Miq. var. *yentangense* W. P. Fang & M. Y. Fang (P. J. Tsoong, holotype: PE; isotype: PE)

Acer changhuaense (W. P. Fang & M. Y. Fang) W. P. Fang & P. L. Chiu var. *glabrescens* Z. H. Chen, W. Y. Xie & X. F. Jin 脱毛昌化槭 [New Variety]

CHEN Zheng-hai, XIE Wen-yuan, CHEN Feng, ZHU Yi-rong, JIN Xiao-feng. New Notes on *Acer* L. in Zhejiang (II). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3): 69-73. [C] 2021: [73]. doi: 10.3969/j.issn.1001-3776.2021.03.010

TYPE: X. F. Jin 4352 (holotype: HTC; isotype: ZM); X. F. Jin 4353 (paratype: HTC)

CHINA (Zhejiang*)

Evidence: morphology

Acer changhuaense (W. P. Fang & M. Y. Fang) W. P. Fang & P. L. Chiu var. *trilobum* Z. H. Chen, Y. R. Zhu & X. F. Jin 三裂叶昌化槭 [New Variety]

CHEN Zheng-hai, XIE Wen-yuan, CHEN Feng, ZHU Yi-rong, JIN Xiao-feng. New Notes on *Acer* L. in Zhejiang (II). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3):

69-73. [C] 2021: [72]. doi: 10.3969/j.issn.1001-3776.2021.03.010

TYPE: Y. R. Zhu & Z. H. Chen WY20092102 (holotype: ZM; isotype: ZM); Z. H. Chen & J. F. Wang LD20090501 (paratype: ZM); Z. H. Chen & J. F. Wang LD20090502 (paratype: ZM); Z. H. Chen & al. WY17052901 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19032801 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19032802 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19032803 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19032805 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19032807 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19032810 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19050701 (paratype: ZM); Y. R. Zhu & Z. H. Chen WY19050702 (paratype: ZM); Q. Hong L8522-240 (paratype: CSFI)

CHINA (Zhejiang*)

Evidence: morphology

Acer miaotaiense P. C. Tsoong subsp. *yangjuechi* (W. P. Fang & P. L. Chiu) P. L. Chiu & Z. H. Chen 羊角槭 [New Combination] **QIU Bao-lin, CHEN Feng, XIE We-yuan, ZHANG Fen-yao, CHEN Zheng-hai.** New Materials of *Acer* L. in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(1): 34-40. [C] 2021: [35]. doi: 10.19926/j.cnki.issn.1674-232X.2021.01.006

TYPE: Forest. Stat., Dept. Forest., Chekiang Agr. Univ. 1529 (holotype: HHBG)

CHINA (Zhejiang*)

Evidence: morphology

B: *Acer yangjuechi* W. P. Fang & P. L. Chiu

Acer subtrinervium F. P. Metcalf. var. *dimorphifolium* (F. P. Metcalf.) Z. H. Chen & W. Y. Xie 两型叶闽江槭 [New Combination]

CHEN Zheng-hai, XIE Wen-yuan, CHEN Feng, ZHU Yi-rong, JIN Xiao-feng. New Notes on *Acer* L. in Zhejiang (II). *Journal of Zhejiang Forestry Science and Technology* [J] 41(3): 69-73. [C] 2021: [71]. doi: 10.3969/j.issn.1001-3776.2021.03.010

TYPE: S. T. Dunn 2543 (holotype: A)

CHINA (Fujian*)

Evidence: morphology

B: *Acer dimorphifolium* F. P. Metcalf.

Acer tataricum L. subsp. *theiferum* (W. P. Fang) Z. H. Chen & P. L. Chiu 苦茶槭 [New Combination]

QIU Bao-lin, CHEN Feng, XIE We-yuan, ZHANG Fen-yao, CHEN Zheng-hai. New Materials of *Acer* L. in Zhejiang. *Journal of Hangzhou Normal University (Natural Science Edition)* [J] 20(1): 34-40. [C] 2021: [35]. doi: 10.19926/j.cnki.issn.1674-232X.2021.01.006

TYPE: W. P. Fang 10413 (holotype: HHBG)

CHINA (Jiangsu*)

Evidence: morphology

B: *Acer theiferum* W. P. Fang

Saxifragaceae 虎耳草科

Chrysosplenium sangzhiense Hong Liu bis 桑植金腰 [New Species]

FU Long-fei, YANG Tian-ge, LAN De-qing, WEN Fang, LIU Hong. *Chrysosplenium sangzhiense* (Saxifragaceae), a New

Species from Hunan, China. *PhytoKeys* [J] 176: 21-32. [E] 2021: [26]. doi: 10.3897/phytokeys.176.62802

TYPE: Hong Liu HSN074491 (holotype: HSN; isotype: HSN, IBK)

CHINA (Hunan*)

IUCN: LC; **Evidence:** morphology; matK; chromosome

Saxifraga viridiflora X. J. Zhang, T. Deng, J. T. Chen & H. Sun 绿花虎耳草 [New Species]

ZHANG Xin-jian, FU Quan-sheng, CHEN Jun-tong, LI Li-juan, LUO Peng-rui, PENG Jing-yi, HUANG Xian-han, SUN Hang, DENG Tao. *Saxifraga viridiflora* (Saxifragaceae), an Unusual New Species from Guangxi, China. *PhytoKeys* [J] 184: 19-26. [E] 2021: [20]. doi: 10.3897/phytokeys.184.73421

TYPE: X. J. Zhang & D. X. Luo Zhangxj98 (holotype: KUN; isotype: JIU, SYS); X. J. Zhang, L. J. Li, J. Y. Peng & P. R. Luo Deng12030 (paratype: KUN); X. J. Zhang & D. X. Luo Zhangxj99 (paratype: KUN)

CHINA (Guangxi*)

Evidence: morphology

Solanaceae 茄科

Solanum pilosus H. M. Pei 毛龙葵 [New Species]

[nom. inval.]

PEI Hui-ming. A New Species of *Solanum* L. *Journal of Gansu Forestry Science and Technology* [J] 46(3): 45-45 (56). [C] 2021: [45]. doi: 10.3969/j.issn.1006-0960.2021.03.011

TYPE: H. M. Pei & D. S. Yao 2015-100 (type: GSFS)

CHINA (Gansu*)

Evidence: morphology

Styracaceae 安息香科

Styrax buchananii W. W. Smith [Rediscovery]

ZHANG Rui, ZHAO Wan-Yi, LIU Yu-Lin, FAN Yu, TANG Ming. Rediscovery of *Styrax buchananii* and *S. chrysocarpus*, with supplemental descriptions adding fruit and floral characters, respectively. *Phytotaxa* [J] 479(2): 173-182. [E] 2021: [174]. doi: 10.11646/phytotaxa.479.2.3

TYPE: E. M. Buchanan 51 (holotype: E-00105737; isotype: E-00105737)

CHINA (Yunnan); MYANMAR*

IUCN: DD; **Evidence:** morphology

Styrax chrysocarpus H. L. Li [Rediscovery]

ZHANG Rui, ZHAO Wan-Yi, LIU Yu-Lin, FAN Yu, TANG Ming. Rediscovery of *Styrax buchananii* and *S. chrysocarpus*, with supplemental descriptions adding fruit and floral characters, respectively. *Phytotaxa* [J] 479(2): 173-182. [E] 2021: [179]. doi: 10.11646/phytotaxa.479.2.3

TYPE: H. T. Tsai 62505 (holotype: A-00018412; isotype: IBSC-0454257, KUN, LBG-00098686, NAS-00072204, PE-00027899); H. T. Tsai 62522 (paratype: A, KUN, LBG, PE); H. T. Tsai 62766 (paratype: A, IBSC, KUN, PE)

CHINA (Yunnan*)

IUCN: EN; **Evidence:** morphology

Styrax hwangiae M. Tang & W. B. Xu 淑美安息香 [New Species]

XU Wei-Bin, YANG Ping, HUANG Yu-Song, ZHANG Rui, TANG Ming. *Styrax hwangiae* (Styracaceae), a New Species Endemic to Limestone Areas of Guangxi, China. *Phytotaxa* [J]

478(1): 171-178. [E] 2021: [172]. doi: 10.11646/phytotaxa.478.1.13
TYPE: P. Yang & al. BL448 (holotype: IBK; isotype: IBK, JXAU)
CHINA (Guangxi*)
IUCN: EN; **Evidence:** morphology

Theaceae 山茶科

Camellia fraterna Hance f. *amoena* D. H. Wu, X. D. Mei & Z. H. Chen 粉花连蕊茶 [New Form]

YAN Fu-bin, XIE Wen-yuan, WANG Jun-feng, WU Dong-hao, CHEN Xian-xing, CHEN Zheng-hai. New Materials in Flora of Zhejiang Province (III). *Journal of Zhejiang Forestry Science and Technology* [J] 41(5): 80-85. [C] 2021: [84]. doi: 10.3969/j.issn.1001-3776.2021.05.013

TYPE: Z. H. Chen, Y. S. Xie & L. Chen JN21012202 (holotype: ZM; isotype: ZM); Z. H. Chen, L. Chen & M. H. Mao WX21022501 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Camellia luteocalpandria S. X. Yang & E. D. Liu 云南管蕊茶 [New Species]

YU Xiang-qin, LIU En-de, LIU Zhen-wen, XIAO Bo, MA Jin-lin, YANG Shi-xiong. *Camellia luteocalpandria* (Theaceae), a New Species and the First Discovery of sect. *Calpandria* in China. *Phytotaxa* [J] 489(2): 223-228. [E] 2021: [224]. doi: 10.11646/phytotaxa.489.2.11

TYPE: S. X. Yang, E. D. Liu, W. Fang, J. Zou & C. H. Wang 6415 (holotype: KUN-1498270; isotype: AA, K, KUN, P, PE); E. D. Liu, F. Z. Shangguan & Z. D. Wei LED5150 (paratype: KUN); E. D. Liu & al. LED9293 (paratype: KUN); S. X. Yang, E. D. Liu, W. Fang, J. Zou & C. H. Wang 6416 (paratype: KUN)

CHINA (Yunnan*)

IUCN: CR; **Evidence:** morphology

Pyrenaria jonquieriana Pierre ex Laness. [New Synonyms]

YANG Ye-kun, ZHANG Qiong, MA Jin-lin, YANG Shi-xiong. Taxonomic Treatments of *Pyrenaria jonquieriana* (Theaceae) and Related Taxa. *Phytotaxa* [J] 525(3): 237-242. [E] 2021: [240]. doi: 10.11646/phytotaxa.525.3.6

TYPE: D. Harmand 4005 (lectotype: P-00130113; isoelectotype: K, P-00130114, P-04510993)

CHINA (Hainan, Yunnan); **LAOS***, **VIETNAM**

Evidence: morphology

S: *Tutcheria multisepala* Merr. & Chun; *Pyrenaria multisepala* (Merr. & Chun) H. Keng; *Parapyrenaria multisepala* (Merr. & Chun) Hung T. Chang; *Pyrenaria jonquieriana* Pierre ex Laness. subsp. *multisepala* (Merr. & Chun) S. X. Yang (H. Y. Liang 61513, holotype: NY-00385759; isotype: A-00025128, IBSC-0003766; IBSC-0003765, K, PE-00888160); *Pyrenaria poilaneana* Gagnep. (E. Poilane 29937, lectotype: P-00130111; isoelectotype: P-04511092, P-04511094); *Parapyrenaria hainanensis* Hung T. Chang (P. Tsang H6, holotype: SYS-00095081); *Parapyrenaria indochinensis* Hung T. Chang (E. Poilane 6814, holotype: PE-01858750; isotype: P-04511081, K, VNM-00003690); *Camellia luuana* Orel & Curry (H. T. Luu, Q. D. Nguyen & T. Q. T. Nguyen TD 391, holotype: NSW-901733)

Pyrenaria jonquieriana Pierre ex Laness. [Typification]

YANG Ye-kun, ZHANG Qiong, MA Jin-lin, YANG Shi-xiong. Taxonomic Treatments of *Pyrenaria jonquieriana* (Theaceae) and

Related Taxa. *Phytotaxa* [J] 525(3): 237-242. [E] 2021: [240]. doi: 10.11646/phytotaxa.525.3.6

TYPE: D. Harmand 4005 (lectotype: P-00130113; isoelectotype: K, P-00130114, P-04510993)

CHINA (Hainan, Yunnan); **LAOS***, **VIETNAM**

Evidence: morphology

Thymelaeaceae 瑞香科

Wikstroemia gaomushanensis (Zi L. Chen, Pan Wang & Y. F. Lu) Y. F. Lu & X. F. Jin 高姥山堇花 [New Combination]

LU Yi-fei, CHEN Lin, LIN Feng, CHEN Zheng-hai, JIN Xiao-feng. Nomenclatural Novelties in *Wikstroemia* (Thymelaeaceae) of Zhejiang, China. *Taiwania* [J] 66(4): 427-432. [E] 2021: [430]. doi: 10.6165/tai.2021.66.427

TYPE: Z. L. Chen & P. Wang 2017050601 (holotype: HTC; isotype: HTC, ZM)

CHINA (Zhejiang*)

IUCN: DD; **Evidence:** morphology

B: *Daphne gaomushanensis* Zi L. Chen, Pan Wang & Y. F. Lu

Wikstroemia sect. *Zhejiangenses* Y. F. Lu, Z. H. Chen & X. F. Jin [New Section]

LU Yi-fei, CHEN Lin, LIN Feng, CHEN Zheng-hai, JIN Xiao-feng. Nomenclatural Novelties in *Wikstroemia* (Thymelaeaceae) of Zhejiang, China. *Taiwania* [J] 66(4): 427-432. [E] 2021: [428]. doi: 10.6165/tai.2021.66.427

TYPE: *Wikstroemia zhejiangensis* Y. F. Lu, Z. H. Chen & X. F. Jin

Evidence: morphology

Wikstroemia zhejiangensis Y. F. Lu, Z. H. Chen & X. F. Jin 浙江堇花 [New Species]

LU Yi-fei, CHEN Lin, LIN Feng, CHEN Zheng-hai, JIN Xiao-feng. Nomenclatural Novelties in *Wikstroemia* (Thymelaeaceae) of Zhejiang, China. *Taiwania* [J] 66(4): 427-432. [E] 2021: [428]. doi: 10.6165/tai.2021.66.427

TYPE: X. F. Jin & Y. F. Lu 4630 (holotype: ZM; isotype: HTC, ZM)

CHINA (Zhejiang*)

IUCN: DD; **Evidence:** morphology

Urticaceae 荨麻科

Capsulea Yong Wang tetrakis 蒴果麻属 [New Genus] [ineffective]

WANG Yong. *Capsulea* Y. Wang, a New Genus of Urticaceae from Shaanxi Province, China. *Bulletin of Botanical Research* [J] 41(1): 1-3. [C] 2021: [1]. doi: 10.7525/j.issn.1673-5102.2021.05.003

TYPE: *Capsulea bashanensis* Yong Wang tetrakis

Evidence: morphology

Capsulea bashanensis Yong Wang tetrakis 蒴果麻 [New Species] [ineffective]

WANG Yong. *Capsulea* Y. Wang, a New Genus of Urticaceae from Shaanxi Province, China. *Bulletin of Botanical Research* [J] 41(1): 1-3. [C] 2021: [2]. doi: 10.7525/j.issn.1673-5102.2021.01.001

TYPE: Yong Wang 16098 (holotype: HZTC; Isotype: PE)

CHINA (Shaanxi*)

Evidence: morphology

Elatostema chinense U. B. Deshmukh [New Name]
[nom. illeg.]

DESHMUKH Umakant B. *Elatostema chinense*, a New Name for *Elatostema longipedunculatum* (W. T. Wang) Y. H. Tseng & A. K. Monro (Urticaceae). *Key Bulletin* [J] 76(1): 61-62. [E] 2021: [61]. doi: 10.1007/S12225-021-09925-8

TYPE: S. C. Chen 4918 (holotype: IBSC)

CHINA (Guangxi*); **VIETNAM**

Evidence: morphology

R: *Pellionia longipedunculata* W. T. Wang

Elatostema qinzhouense L. F. Fu, A. K. Monro & Y. G. Wei 钦州楼梯草 [New Species]

Fu Long-fei, Monro Alexandre K., Yang Tian-ge, Wen Fang, Pan Bo, Xin Zi-bing, Zhang Zhi-xiang, Wei Yi-gang. *Elatostema qinzhouense* (Urticaceae), a New Species from Limestone Karst in Guangxi, China. *PeerJ* [J] 9(e11148): 1-16. [E] 2021: [5]. doi: 10.7717/peerj.11148

TYPE: B. Pan & H. S. Ma P1184 (holotype: IBK-00426150; isotype: K-000798321); B. Pan & H. S. Ma P1184 (paratype: BJFC, CSH, PE)

CHINA (Guangxi*)

IUCN: CR; **Evidence:** morphology; ITS, trnH-psbA, psbM-trnD

Elatostema ser. *Xingyiensia* L. D. Duan & D. H. Yin [New Series]

YIN Dan-hong, HUANG Teng-fei, LU Zhen, DUAN Lin-dong. A New Species and a New Series of *Elatostema* (Urticaceae) from South-western China. *PhytoKeys* [J] 180: 65-71. [E] 2021: [66]. doi: 10.3897/phytokeys.176.65443

TYPE: *Elatostema xingyiense* L. D. Duan & D. H. Yin

Evidence: morphology

Elatostema xingyiense L. D. Duan & D. H. Yin 兴义楼梯草 [New Species]

YIN Dan-hong, HUANG Teng-fei, LU Zhen, DUAN Lin-dong. A New Species and a New Series of *Elatostema* (Urticaceae) from South-western China. *PhytoKeys* [J] 180: 65-71. [E] 2021: [67]. doi: 10.3897/phytokeys.180.65813

TYPE: L. D. Duan & Z. Lu 6118 (holotype: HUSY; isotype: HNNU, PE, HUSY)

CHINA (Guizhou*)

IUCN: EN; **Evidence:** morphology

Pellionia jinyunensis C. Xiong, F. Chen & H. P. Deng 缙云赤车 [New Species]

XIONG Chi, CHEN Feng, LÜ Xin-yun, DENG Hong-ping. A New Species of Urticaceae from Chongqing — *Pellionia jinyunensis* C. Xiong, F. Chen & H. P. Deng. *Acta Botanica Boreali-Occidentalia Sinica* [J] 41(3): 523-532. [C] 2021: [525]. doi: 10.7606/j.issn.1000-4025.2021.03.0523

TYPE: C. Xiong, F. Chen JYS-105 (holotype: SWNTU); C. Xiong 21004 (paratype: CQNM)

CHINA (Chongqing*)

Evidence: morphology; ITS

Violaceae 堇菜科

Viola huizhouensis Y. S. Huang & Q. Fan 惠州堇菜 [New Species]

HUANG Yan-shuang, KANG Ning, ZHONG Xiang-jing, LIAO Wen-bo, FAN Qiang. A New Species of *Viola* (Violaceae)

from Guangdong Province, China. *PhytoKeys* [J] 176: 67-76. [E] 2021: [70]. doi: 10.3897/phytokeys.176.65443

TYPE: Y. S. Huang & Q. Fan 1803 (holotype: SYS; isotype: IBSC, SYS)

CHINA (Guangdong*)

Evidence: morphology

Vitaceae 葡萄科

Causonis cardiospermoides (Planch. ex Franch.) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1204]. doi: 10.1002/tax.12562

TYPE: J. M. Delavay 1816 (lectotype: P-00697950; isolectotype: A-00299947, P-02904115)

CHINA (Sichuan, Yunnan*)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Ampelopsis cardiospermoides* Planch. ex Franch.

Causonis cardiospermoides (Planch. ex Franch.) G. Parmar & L. M. Lu [Typification]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1204]. doi: 10.1002/tax.12562

TYPE: J. M. Delavay 1816 (lectotype: P-00697950; isolectotype: A-00299947, P-02904115)

CHINA (Sichuan, Yunnan*)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

Causonis ciliifera (Merr.) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1204]. doi: 10.1002/tax.12562

TYPE: V. M. Chu 42 (holotype: UC-373863)

CHINA (Hainan*); **VIETNAM**

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Columella ciliifera* Merr.

Causonis corniculata (Benth.) J. Wen & L. M. Lu [Typification]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1206]. doi: 10.1002/tax.12562

TYPE: C. Wilford 385 (lectotype: K-000736422; isotype: GH-00299958!, K-000736421)

CHINA (Hong Kong*)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

Causonis daliensis (C. L. Li) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1207]. doi: 10.1002/tax.12562

TYPE: H. Li & al. 1089 (holotype: KUN-0459771; isotype: KUN-0459772)

CHINA (Yunnan*); INDONESIA, MALAYSIA, VIETNAM

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Cayratia daliensis* C. L. Li

Causonis fugongensis (C. L. Li) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1207]. doi: 10.1002/tax.12562

TYPE: Qinghai-Xizang Exped. 6916 (holotype: KUN-0459744; isotype: PE-01128778, PE-01128779)

CHINA (Yunnan*); MYANMAR

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Cayratia fugongensis* C. L. Li

Causonis glauca G. Parmar & Z. D. Chen [New Species]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1208]. doi: 10.1002/tax.12562

TYPE: Z. D. Chen & al. VN146 (holotype: PE-02345121; isotype: PE-02345122, PE-02345123, PE-02345124)

CHINA (Guangxi, Hainan.); MYANMAR, VIETNAM*

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

Causonis japonica (Thunb.) Raf. var. *pseudotrifolia* (W. T. Wang) G. Parmar & J. Wen [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1210]. doi: 10.1002/tax.12562

TYPE: T. Dai 101154 (holotype: PE-00935436; isotype: IBK-00106245, IBK-00106246)

CHINA (Chongqing*, Gansu, Guangdong, Guizhou, Hebei, Hubei, Hunan, Jiangxi, Shaanxi, Sichuan, Yunnan, Zhejiang)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Cayratia pseudotrifolia* W. T. Wang

Causonis medogensis (C. L. Li) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1211]. doi: 10.1002/tax.12562

TYPE: P. S. Li & S. Z. Chen 04914 (lectotype: PE-00686908; isotype: PE-00686903, PE-02077756, PE-02077757)

CHINA (Xizang*)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Cayratia medogensis* C. L. Li

Causonis medogensis (C. L. Li) G. Parmar & L. M. Lu [Typification]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1211]. doi: 10.1002/tax.12562

TYPE: P. S. Li & S. Z. Chen 04914 (lectotype: PE-00686908; isotype: PE-00686903, PE-02077756, PE-02077757)

CHINA (Xizang*)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

Causonis mollis (Wall. ex M. A. Lawson) G. Parmar & J. Wen [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny, Character Evolution and Taxonomic Revision of Causonis, a Segregate Genus from Cayratia (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1211]. doi: 10.1002/tax.12562

TYPE: F. de Silva Wall. Cat. 6025 (lectotype: K-001122839; isotype: E-00393050, K-001089965)

CHINA (Guangdong, Guangxi, Hainan); BANGLADESH*, INDIA, LAOS, MYANMAR, THAILAND

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Vitis mollis* Wall. ex M. A. Lawson

Causonis tenuifolia (Wight & Arn.) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, DANG Viet-cuong, RABARIJAONA Romer Narindra, CHEN Zhi-duan, JACKES Betsy R., BARRETT Russell L., ZHANG Zhu-zhi, NIU Yan-ting, TRIAS-BLASI Anna, WEN Jun, LU Li-min. Phylogeny,

Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1213]. doi: 10.1002/tax.12562

TYPE: B. Heyne Wall. Cat. 6022.A (lectotype: K-001122834; isolectotype: E-00174267, K-000736411, K-001122836)

CHINA (Taiwan); **INDIA***, **THAILAND**

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Vitis tenuifolia* Wight & Arn.

Causonis timoriensis (DC.) L. M. Lu & V. C. Dang [New Combination]

PARMAR Gaurav, **DANG** Viet-cuong, **RABARIJAONA** Romer Narindra, **CHEN** Zhi-duan, **JACKES** Betsy R., **BARRETT** Russell L., **ZHANG** Zhu-zhi, **NIU** Yan-ting, **TRIAS-BLASI** Anna, **WEN** Jun, **LU** Li-min. Phylogeny, Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1213]. doi: 10.1002/tax.12562

TYPE: Anon. s.n. (holotype: G-00205274)

CHINA (Yunnan); **TIMOR-LESTE***

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Cissus timoriensis* DC.

Causonis timoriensis (DC.) L. M. Lu & V. C. Dang var. *mekongensis* (C. Y. Wu ex W. T. Wang) G. Parmar & L. M. Lu [New Combination]

PARMAR Gaurav, **DANG** Viet-cuong, **RABARIJAONA** Romer Narindra, **CHEN** Zhi-duan, **JACKES** Betsy R., **BARRETT** Russell L., **ZHANG** Zhu-zhi, **NIU** Yan-ting, **TRIAS-BLASI** Anna, **WEN** Jun, **LU** Li-min. Phylogeny, Character Evolution and Taxonomic Revision of *Causonis*, a Segregate Genus from *Cayratia* (Vitaceae). *Taxon* [J] 70(6): 1188-1218. [E] 2021: [1214]. doi: 10.1002/tax.12562

TYPE: C. W. Wang 77936 (holotype: PE-00935431; isotype: A-00098307, PE-00935432, PE-00935433)

CHINA (Yunnan*)

Evidence: morphology; atpB-rbcL, trnC-petN, trnHpsbA, trnL-F, AS1, At103, ITS

B: *Cayratia mekongensis* C. Y. Wu ex W. T. Wang

Vitis adenoclada Hand.-Mazz. [New Recognition]

WEN Jun, **MA** Zhi-yao. On the Recognition of the Long Neglected *Vitis adenoclada* Hand.-Mazz. (Vitaceae) from Southern China. *PhytoKeys* [J] 179: 29-33. [E] 2021: [30]. doi: 10.3897/phytokeys.179.65519

TYPE: H. Handel-Mazzetti 11819 (holotype: WU-0029734; isotype: K-000574937)

CHINA (Guangdong, Guangxi, Guizhou, Hunan*, Zhejiang)

Evidence: morphology

S: *Vitis heyneana* Roem. & Schult.

Vitis amoena Z. H. Chen, F. Chen & W. Y. Xie 秀丽葡萄 [New Species]

XIE Wen-yuan, **CHEN** Feng, **CHEN** Zheng-hai. New Materials of *Vitis* L. in Zhejiang. *Guihaia* [J] 41(8): 1391-1400. [C] 2021: [1395]. doi: 10.11931/guihaia.gxzw201909046

TYPE: Z. H. Chen QJ17061510 (holotype: ZM; isotype: ZM); Z. H. Chen CA170517-23 (paratype: ZM); Z. H. Chen & S. W. Chen KH19081401 (paratype: ZM); Z. H. Chen & S. W. Chen KH19081403 (paratype: ZM); Z. H. Chen & S. W. Chen

KH19081406 (paratype: ZM); Z. H. Chen QJ17061503 (paratype: ZM); Z. H. Chen QJ17061509 (paratype: ZM); Z. H. Chen & Q. S. Lin QJ19082502 (paratype: ZM); Z. H. Chen, J. S. Wang & W. Q. Lin WC19052301 (paratype: ZM); Z. H. Chen, Z. L. Chen & J. F. Chen PA19062101 (paratype: ZM); Z. H. Chen, Z. L. Chen & J. F. Chen PA19062102 (paratype: ZM); Z. H. Chen, Z. L. Chen & J. F. Chen PA19080703 (paratype: ZM); Z. H. Chen, Z. L. Chen & J. F. Chen PA19062104 (paratype: ZM); Z. H. Chen, Z. L. Chen & P. Wang PA19080701 (paratype: ZM); Z. H. Chen, Z. L. Chen & P. Wang PA19080702 (paratype: ZM); Z. H. Chen, Z. L. Chen & P. Wang PA19080703 (paratype: ZM); Z. H. Chen PA19090101 (paratype: ZM); Z. H. Chen PA190102 (paratype: ZM); Z. H. Chen & al. 04 (paratype: ZM); Z. Z. Zhang & W. G. Ye TT19052904 (paratype: ZM); J. F. Wang & X. D. Mei LD19070701 (paratype: ZM); Z. H. Chen & F. G. Zhang Zhang162 (paratype: ZM); H. Chen & al. LQFYS180721-07 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Vitis heyneana Roem. & Schult. var. *adenoclada* (Hand.-Mazz.) Z. H. Chen, F. Chen & W. Y. Xie 腺枝毛葡萄 [New Combination]

XIE Wen-yuan, **CHEN** Feng, **CHEN** Zheng-hai. New Materials of *Vitis* L. in Zhejiang. *Guihaia* [J] 41(8): 1391-1400. [C] 2021: [1399]. doi: 10.11931/guihaia.gxzw201909046

TYPE: H. Hand.-Mazz. 11819 (holotype: WU-0029734)

CHINA (Hunan*)

Evidence: morphology

Vitis kaihuaica Z. H. Chen, F. Chen & W. Y. Xie 开化葡萄 [New Species]

XIE Wen-yuan, **CHEN** Feng, **CHEN** Zheng-hai. New Materials of *Vitis* L. in Zhejiang. *Guihaia* [J] 41(8): 1391-1400. [C] 2021: [1392]. doi: 10.11931/guihaia.gxzw201909046

TYPE: Z. H. Chen, L. Chen & J. L. Hong KH19081506 (holotype: ZM; isotype: ZM); Z. H. Chen & S. W. Chen KH19081405 (paratype: ZM); Z. H. Chen & S. W. Chen KH19081407 (paratype: ZM); Z. H. Chen & F. Chen KHKT181014-01 (paratype: ZM); Z. H. Chen & Y. M. Wang KH19052202 (paratype: ZM); Z. H. Chen & F. G. Zhang Zhang1059 (paratype: ZM); Z. H. Chen & Y. M. Wang KH19052201 (paratype: ZM); Z. H. Chen, L. Chen & J. L. Hong KH19081508 (paratype: ZM); Z. H. Chen, L. Chen & J. L. Hong KH19081508 (paratype: ZM); S. H. Yao Yao-01 (paratype: ZM); Z. H. Chen s.n. (paratype: ZM); S. Y. Zhang 5283 (paratype: HHBG, KUN, PE, WUK, HTC); Z. H. Chen, X. D. Mei & J. Lin JN19070411 (paratype: ZM); Z. H. Chen, X. D. Mei & J. Lin JN19070412 (paratype: ZM); Z. H. Chen, X. D. Mei & J. Lin JN19070413 (paratype: ZM); Z. H. Chen & F. Chen JXWY181011-01 (paratype: ZM)

CHINA (Jiangxi, Zhejiang*)

Evidence: morphology

Vitis longquanensis P. L. Chiu var. *glandulosa* Z. H. Chen, F. Chen & W. Y. Xie 腺枝龙泉葡萄 [New Variety]

XIE Wen-yuan, **CHEN** Feng, **CHEN** Zheng-hai. New Materials of *Vitis* L. in Zhejiang. *Guihaia* [J] 41(8): 1391-1400. [C] 2021: [1399]. doi: 10.11931/guihaia.gxzw201909046

TYPE: Z. H. Chen & J. P. Zhong QJ17061511 (holotype: ZM; isotype: ZM); L. Chen & Q. S. Lin QJ19052104 (ZM); Z. H. Chen & Q. S. Lin QJ19082503 (paratype: ZM)

CHINA (Zhejiang*)

Evidence: morphology

Vitis shizishanensis Z. Y. Ma, J. Wen, Q. Fu & X. Q. Liu 狮子山葡萄 [New Species]

MA Zhi-yao, WEN Jun, FU Qiang, LIU Xiu-qun. *Vitis shizishanensis*, a New Species of the Grape Genus from Hubei province, China. *PhytoKeys* [J] 184: 45-54. [E] 2021: [47]. doi: 10.3897/phytokeys.184.70045

TYPE: X. Q. Liu 755 (holotype: CCAU; isotype: CCAU, US)

CHINA (Hubei*)

Evidence: morphology

Zingiberaceae 姜科

Alpinia calcicola Q. B. Nguyen & M. F. Newman 灰岩山姜 [New Record]

YE Yu-shi, HUANG Xiang-xu, CHEN Juan. *Alpinia calcicola* Q. B. Nguyen & M. F. Newman, a Newly Recorded Species of *Alpinia* (Zingiberaceae) from China. *Journal of Tropical and Subtropical Botany* [J] 29(3): 328-330. [C] 2021: [328]. doi: 10.11926/jtsb.4303

TYPE: T. H. Nguyen & K. Ruth NTH 4220 (holotype: HN; isotype: SING)

CHINA (Yunnan); VIETNAM*

Evidence: morphology

Alpinia laosensis Gagnep. [Correction]

YE Xing-er, NGUYEN Khang Sinh, SOUVANNAKHOUUMANE Keoudone, NGUYEN Quoc Binh, CHEN Juan. *Alpinia laosensis*, the Correct Name for a Species Previously Misidentified as *A. conchigera*. *Phytotaxa* [J] 508(2): 129-141. [E] 2021: [133]. doi: 10.11646/phytotaxa.508.1.9

TYPE: Pavie 18 (holotype: P-032692)

CHINA (Yunnan); LAOS*

Evidence: morphology

A: *Alpinia conchigera* auct. non Griff.: T. L. Wu & S. J. Chen, *Acta Phytotaxonomica Sinica* 16: 36. 1978; T. L. Wu & S. J. Chen, *Flora Reipublicae Popularis Sinicae*, Vol. 16: 97. 1981; S. Q. Tong, *Flora Yunnanica*, Vol. 8: 613. 1997; T. L. Wu & K. Larsen, *Flora of China*, Vol. 24: 336. 2000.

Amomum arunachalense Hareesh & M. Sabu [New Species]

HAREESH Vadakkoot Sankaran, BORAH Dipankar, SABU Mamiyil. *Amomum arunachalense* (Zingiberaceae), a New Species from Northeastern India. *Annales Botanici Fennici* [J] 58(1-3): 69-72. [E] 2021: [69]. doi: 10.5735/085.058.0111

TYPE: V. S. Hareesh 152689 (holotype: MBGH; isotype: CAL)

CHINA (Xizang*)

Evidence: morphology

Amomum fangdingii X. E. Ye, Škorničk. & N. H. Xia 方鼎豆蔻 [New Species]

YE Xing-er, LEONG-ŠKORNIČKOVÁ Jana, BAI Lin, XIA Nian-he. Taxonomic Studies on *Amomum* (Zingiberaceae) in China III: *Amomum fangdingii*, a New Species from Guangxi. *Phytotaxa* [J] 490(3): 263-270. [E] 2021: [264]. doi: 10.11646/phytotaxa.490.3.4

TYPE: X. E. Ye 127 (holotype: IBSC; isotype: GXMI, SING); H. N. Qin & al. 573 (paratype: IBSC-0721065); D. Fang 36914 (paratype: GXMI-044994); X. P. Liao & D. Fang 36966 (paratype: GXMI-044986); S. H. Chun 12410 (paratype: IBK-00137357,

IBSC-0022012, KUN-0334839, PE-00074505); X. P. Liao & D. Fang 76611 (paratype: GXMI-044983); X. P. Liao & D. Fang 76612 (paratype: GXMI-044985); H. Y. Liang 70079 (paratype: IBSC-00220051, IBK-00137356, PE-00074508); W. T. Tsang 26820 (paratype: IBSC-0022004); Dayaoshan Exped. 13784 (I paratype: BK-00194960); X. C. Huang 7661 (paratype: GXMG); J. B. Ni & J. Chen 061008 (paratype: IBSC); X. E. Ye yxe-160 (paratype: IBSC); S. S. Sin 128 (paratype: IBSC-0022011); South Medicine Group 16 (paratype: PE-00074507, PE-00074508, PE-00074509); X. Q. Deng 73109 (paratype: GXMI-044989); D. Fang 17715 (paratype: GXMI-044982, GXMI-044988, PE-00033185); D. Fang 17716 (paratype: GXMI-044984); D. Fang 17714 (paratype: GXMI-044991); D. H. Qin & M. X. Lai 17924 (paratype: GXMI-044992); D. H. Qin & M. X. Lai 17933 (paratype: GXMI-044993); X. Q. Deng & Y. Wang 17693 (paratype: GXMI044987); D. Fang 35973 (paratype: GXMI-044990)

CHINA (Guangxi*)

IUCN: LC; **Evidence:** morphology

Amomum xizangense L. Fu, Jian P. Huang & Y. S. Ye 墨脱豆蔻 [New Species]

FU Lin, HUANG Jian-ping, WU Xing, DU Zhi-jian, LIN Ling, YE Yu-shi. *Amomum xizangense* (Zingiberaceae), a New Species from Xizang, China. *Phytotaxa* [J] 525(3): 232-236. [E] 2021: [232]. doi: 10.11646/phytotaxa.525.3.5

TYPE: Y. S. Ye 5644 (holotype: IBSC); Qinghai-Xizang Exped. 1700 (paratype: KUN-0424111); Eco-plateau Group 11020 (paratype: PE-01376860); B. S. Li & S. Z. Cheng 03552 (paratype: PE-01376861, PE-01376862); H. Sun & al. (ETM) 0312 (paratype: KUN-0424112, KUN-0424113)

CHINA (Xizang*)

IUCN: EN; **Evidence:** morphology

Curcuma ruiliensis N. H. Xia & Juan Chen 瑞丽莪术 [New Species]

CHEN Juan, YE Yu-shi, XIA Nian-he. *Curcuma ruiliensis* (Zingiberaceae), a New Species from Yunnan, China. *Nordic Journal of Botany* [J] 39(e02910): 1-7. [E] 2021: [2]. doi: 10.1111/njb.02910

TYPE: Chen Juan & al. 17082304 (holotype: IBSC; isotype: KUN, PE)

CHINA (Yunnan*)

IUCN: DD; **Evidence:** morphology; chromosome

Globba ruiliensis X. D. Ma, W. G. Wang & J. Y. Shen 瑞丽舞花姜 [New Species]

MA Xing-da, WANG Wen-guang, GONG Qiang-bang, XU Gui-hua, SHI Ji-pu, SHEN Jian-yong. *Globba ruiliensis*, a New Species of Zingiberaceae from Yunnan, China. *Taiwania* [J] 66(1): 31-34. [E] 2021: [31]. doi: 10.6165/tai.2021.66.31

TYPE: J. Y. Shen, W. G. Wang & X. D. Ma 1666 (holotype: HITBC; isotype: HIB, HITBC, KUN)

CHINA (Yunnan*)

IUCN: EN; **Evidence:** morphology

Hedychium hookeri C. B. Clarke ex Baker [New Record]

BAI Lin, HU Xiu, HE Jiang-hai, TIAN Zhong-cheng. New Records of *Hedychium hookeri* (Zingiberaceae) from China and Myanmar. *Phytotaxa* [J] 494(2): 237-243. [E] 2021: [238]. doi: 10.11646/phytotaxa.494.2.7

TYPE: J. D. Hooker & T. Thomson 1350 (lectotype: K-000640478; isolectotype: K-000640479)
CHINA (Yunnan); **INDIA***, **MYANMAR**
Evidence: morphology

Hedychium hookeri C. B. Clarke ex Baker [Typification]
BAI Lin, HU Xiu, HE Jiang-hai, TIAN Zhong-cheng. New Records of *Hedychium hookeri* (Zingiberaceae) from China and Myanmar. *Phytotaxa* [J] 494(2): 237-243. [E] 2021: [238]. doi: 10.11646/phytotaxa.494.2.7
TYPE: J. D. Hooker & T. Thomson 1350 (lectotype: K-000640478; isolectotype: K-000640479)
CHINA (Yunnan); **INDIA***, **MYANMAR**
Evidence: morphology

Hedychium mechukanum M. Sabu & Hareesh [New Species]
SABU M., HAREESH V. S. *Hedychium mechukanum* (Zingiberaceae), a New Species from the Eastern Himalayas, India. *The Gardens' Bulletin Singapore* [J] 72(2): 291-297. [E] 2021: [292]. doi: 10.26492/gbs72(1).2020-12
TYPE: M. Sabu & V. S. Hareesh 158761 (holotype: MBGH; isotype: CAL)
CHINA (Xizang*)
IUCN: DD; **Evidence:** morphology

Zingiber calcicola Y. H. Tan & H. B. Ding [New Species]
DING Hong-bo, QUAN Dong-li, ZENG Xiao-dong, LI Jian-wu, TAN Yun-hong. *Zingiber calcicola* (Zingiberaceae), a new species from a limestone area in south Yunnan, China. *Phytotaxa* [J] 525(1): 65-69. [E] 2021: [65]. doi: 10.11646/phytotaxa.525.1.8
TYPE: H. B. Ding & X. D. Zeng T0566 (holotype: HITBC-0057379; isotype: HITBC-0057382); H. B. Ding & X. D. Zeng T0565 (paratype: HITBC); H. B. Ding & X. D. Zeng T0567 (paratype: HITBC); H. B. Ding & X. D. Zeng T0568 (paratype: HITBC, PE, KUN); H. B. Ding, B. Yang & X. D. Zeng T0951 (paratype: HITBC); H. B. Ding, B. Yang & X. D. Zeng T0952 (paratype: HITBC)
CHINA (Yunnan*)
IUCN: CR; **Evidence:** morphology

Zingiber campanulatum T. Jayakr., A. Joe, Hareesh & M. Sabu [New Species]
JAYAKRISHNAN Thachath, JOE Alfred, HAREESH Vadkkoot Sankaran, SABU Mamiyil. Two New *Zingiber* (Zingiberaceae) Species from Arunachal Pradesh, Northeastern India. *Taiwania* [J] 66(1): 101-112. [E] 2021: [107]. doi: 10.6165/tai.2021.66.101
TYPE: T. Jayakrishnan & N. Krishna 150203 (holotype: CALI; isotype: CAL)
CHINA (Xizang*)
IUCN: DD; **Evidence:** morphology; ITS

Zingiber cornigerum T. Jayakr., A. Joe, Hareesh & M. Sabu [New Species]
JAYAKRISHNAN Thachath, JOE Alfred, HAREESH Vadkkoot Sankaran, SABU Mamiyil. Two New *Zingiber* (Zingiberaceae) Species from Arunachal Pradesh, Northeastern India. *Taiwania* [J] 66(1): 101-112. [E] 2021: [107]. doi: 10.6165/tai.2021.66.101
TYPE: T. Jayakrishnan & N. Krishna 150204 (holotype: CALI; isotype: CAL)

CHINA (Xizang*)
IUCN: DD; **Evidence:** morphology; ITS

Zingiber viridescens Z. H. Chen, G. Y. Li & W. J. Chen 绿苞囊荷 [New Species]
LI Gen-you, LI Xiu-peng, CHEN Zheng-hai, MA Dan-dan, LIN Hai-lun. New Taxa of Seed Plants from Ningbo, Zhejiang Province. *Botanical Research in Ningbo* [B]: 340-345. [C] 2021: [342].
TYPE: G. Y. Li & Z. H. Chen NH20120285 (holotype: ZJFC)
CHINA (Zhejiang*)
Evidence: morphology

List of Journals and Books

期刊和图书列表

Acta Botanica Boreali-Occidentalia Sinica, 西北植物学报, 西北植物研究 (1981-1984). ISSN: 1000-4025. China: Yangling 1981-.

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LI Gen-you, CHEN Zheng-hai, LI Xiu-peng
China. Beijing: Science Press. ISBN: 978-7-03-067496-8

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China. Beijing: China Forestry Publishing House. ISBN: 978-7-5219-1377-4

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Crop Research, 作物研究. ISSN: 1001-5280. China: Changsha 1984-.

Ecology and Environmental Sciences, 生态环境学报. ISSN: 1674-5906. China: Guangzhou. 2009-. Continues: Tropical and Subtropical Soil Science, 热带亚热带土壤科学 (1992-1998); Soil and Environmental Sciences, 土壤与环境 (1999-2002); Ecology and Environment, 生态环境 (2003-2009).

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附录2 2021年发表中国植物5个物种以上的科及主要的命名人
Appendix 2 Families of more than 5 new species described from China in 2021 and their main authors

科 Family	新分类群数量 No. of new taxa	主要命名人 Main authors of the plant names
兰科 Orchidaceae	37种、2变种、1变型 37 species, 2 varieties, 1 form	亚吉东 J. D. Ya (14); 金效华 X. H. Jin (9); 刘成 C. Liu (4); 林赞标 T. P. Lin (4); 叶德平 D. P. Ye (3); 李剑武 Jian W. Li (3); André Schuiteman, Schuit. (3); 韩周东 Z. D. Han (3); 刘仲健 Z. J. Liu (3); 蒋宏 H. Jiang (2)
毛茛科 Ranunculaceae	23种、1亚种、5变种 23 species, 1 subspecies, 5 varieties	王文采 W. T. Wang (23); 杨亲二 Q. E. Yang (5); 袁琼 Q. Yuan (5); 曾佑派 Y. P. Zeng (5); 杨宗宗 Z. Z. Yang (3)
苦苣苔科 Gesneriaceae	16种、1变种、1变型 16 species, 1 variety, 1 form	温放 F. Wen (3); 杨丽华 Li H. Yang (3); 史习佐 X. Z. Shi (3); 王炳谋 B. M. Wang (2); 陈又生 Y. S. Chen (2); 辛子兵 Z. B. Xin (2)
禾本科 Poaceae	13种 13 species	李德铎 D. Z. Li (3); 夏念和 N. H. Xia (3); 童毅华 Y. H. Tong (3); 倪静波 J. B. Ni (2); Marina V. Olonova, Olonova (2); Christopher M. A. Stapleton, Stapleton (2); Steven P. Sylvester, Sylvester (2); 叶夏英 Xia Y. Ye (2)
秋海棠科 Begoniaceae	12种 12 species	田代科 D. K. Tian (4); 陈文红 W. H. Chen (3); 税玉民 Y. M. Shui (3); Dipankar Borah, D. Borah (2); 李仁坤 R. K. Li (2); Eric Wahlsteen, Wahlsteen (2); 冯欣欣 X. X. Feng (2)
菊科 Asteraceae	11种 11 species	鲁益飞 Y. F. Lu (3); 金孝锋 X. F. Jin (2); 徐跃良 Y. L. Xu (2); 陈征海 Z. H. Chen (2)
姜科 Zingiberaceae	10种 10 species	Vadakkoot S. Hareesh, Hareesh (4); Mamiyil Sabu, M. Sabu (4); Alfred Joe, A. Joe (2); 夏念和 N. H. Xia (2); Thachat Jayakrishnan, T. Jayakr. (2)
天门冬科 Asparagaceae	9种 9 species	鲁志强 Z. Qiang Lu (2)
茜草科 Rubiaceae	9种 9 species	吴磊 L. Wu (5); 王瑞江 R. J. Wang (4); 江国彬 G. B. Jiang (2); 徐一大 Y. D. Xu (2)
凤仙花科 Balsaminaceae	8种 8 species	丛义艳 Y. Y. Cong (6); 宋永秀 Y. X. Song (3); 顾建中 J. Z. Gu (3); 胡光万 G. W. Hu (3); 王青锋 Q. F. Wang (2)
唇形科 Lamiaceae	7种、3变型 7 species, 3 forms	向春雷 C. L. Xiang (4); 李根友 G. Y. Li (2); 郑海磊 H. L. Zheng (2); 陈亚萍 Y. P. Chen (2); 陈又生 Y. S. Chen (2); 陈征海 Z. H. Chen (2)
报春花科 Primulaceae	7种 7 species	鞠文彬 W. B. Ju (2); 高信芬 X. F. Gao (2)
豆科 Fabaceae	6种、1变种、2变型 6 species, 1 variety, 2 forms	李根友 G. Y. Li (2)
肿足蕨科 Hypodematiaceae	6种 6 species	张丽兵 Li Bing Zhang (6); 方忻平 X. P. Fan (6); 高信芬 X. F. Gao (5)
蔷薇科 Rosaceae	5种、2变型 5 species, 2 forms	陈征海 Z. H. Chen (5); 金孝锋 X. F. Jin (2); 张方钢 F. G. Zhang (2)
夹竹桃科 Apocynaceae	5种 5 species	
鳞毛蕨科 Dryopteridaceae	5种 5 species	梁振龙 Z. L. Liang (2); 张丽兵 Li Bing Zhang (2)
野牡丹科 Melastomataceae	5种 5 species	刘演 Yan Liu (2); 刘莹 Ying Liu (2); 曾思金 S. Jin Zeng (2)

表中仅列出发表新类群1个以上的命名人, 命名人后的括号中为其发表新类群的数量。Only those who published more than 1 new taxon are listed in the table, and values in parentheses represent for the number of new taxa published by them.

附录3 2021年发表中国植物3个物种以上的属及主要的命名人
Appendix 3 Genera of more than 3 new species described from China in 2021 and their main authors

属 Genus	新分类群数量 No. of new taxa	主要命名人 Main authors of the plant names
欧银莲属 <i>Anemone</i>	12种、1亚种、4变种 17 species, 1 subspecies, 4 varieties	王文采 W. T. Wang (18)
秋海棠属 <i>Begonia</i>	12种 12 species	田代科 D. K. Tian (4); 陈文红 W. H. Chen (3); 税玉民 Y. M. Shui (3); Dipankar Borah, D. Borah (2); 李仁坤 R. K. Li (2); Eric Wahlsteen, Wahlsteen (2); 冯欣欣 X. X. Feng (2)
凤仙花属 <i>Impatiens</i>	8种 8 species	丛义艳 Y. Y. Cong (6); 宋永秀 Y. X. Song (3); 顾建中 J. Z. Gu (3); 王青锋 Q. F. Wang (2)
肿足蕨属 <i>Hypodematium</i>	6种 6 species	张丽兵 Li Bing Zhang (6); 方忻平 X. P. Fan (6); 高信芬 X. F. Gao (5)
石豆兰属 <i>Bulbophyllum</i>	5种 5 species	亚吉东 J. D. Ya (4); 蒋宏 H. Jiang (2)
唐松草属 <i>Thalictrum</i>	5种 5 species	曾佑派 Y. P. Zeng (5); 袁琼 Q. Yuan (5); 杨亲二, Q. E. Yang (5)
翠雀属 <i>Delphinium</i>	4种、1变种 4 species, 1 variety	王文采 W. T. Wang (5); 杨宗宗 Z. Z. Yang (3)
蜘蛛抱蛋属 <i>Aspidistra</i>	4种 4 species	
毛瓣耳草属 <i>Hedyotis</i>	4种 4 species	王瑞江 R. J. Wang (4); 江国彬 G. B. Jiang (2); 徐一大 Y. D. Xu (2)
珍珠菜属 <i>Lysimachia</i>	4种 4 species	
报春苣苔属 <i>Primulina</i>	4种 4 species	温放 F. Wen (2)
螺序草属 <i>Spiradiclis</i>	4种 4 species	吴磊 L. Wu (4)
玉山竹属 <i>Yushania</i>	4种 4 species	李德铎 D. Z. Li (2); 叶夏英 Xia Y. Ye (2)
姜属 <i>Zingiber</i>	4种 4 species	Vadakkoot S. Hareesh, Hareesh (2); Mamiyil Sabu, M. Sabu (2); Thachat Jayakrishnan, T. Jayakr. (2)
紫堇属 <i>Corydalis</i>	3种、1变种 3 species, 1 variety	
葡萄属 <i>Vitis</i>	3种、1变种 3 species, 1 variety	陈征海 Z. H. Chen (3); 陈锋 F. Chen (3); 谢文远 W. Y. Xie (3)
豆蔻属 <i>Amomum</i>	3种 3 species	
紫菀属 <i>Aster</i>	3种 3 species	
蓟属 <i>Cirsium</i>	3种 3 species	陈征海 Z. H. Chen (2); 金孝锋 X. F. Jin (2)
兰属 <i>Cymbidium</i>	3种 3 species	刘仲健 Z. J. Liu (2)
羊耳蒜属 <i>Liparis</i>	3种 3 species	亚吉东 J. D. Ya (2)
锦香草属 <i>Phyllagathis</i>	3种 3 species	刘演 Yan Liu (2); 刘莹 Ying Liu (2)

表中仅列出发表新类群1个以上的命名人，命名人后的括号中为其发表新类群的数量。Only those who published more than 1 new taxon are listed in the table, and values in parentheses represent for the number of new taxa published by them.

附录4 2021年发表5个以上新分类群的中外学者统计
Appendix 4 List of Chinese and foreign authors who published more than 5 new taxa in 2021

标准拼写 Stand name	中文姓名 Chinese name	西文拼写 Romanized name	研究领域 Research area	国家(地区) Country (region)	发表新分类群数量 No. of new taxa
Z. H. Chen	陈征海	Zhenghai Chen	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	33
W. T. Wang	王文采	Wentsai Wang	毛茛科 Ranunculaceae	中国 China	23
G. Y. Li	李根有	Genyou Li	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	21
J. D. Ya	亚吉东	Jidong Ya	兰科 Orchidaceae	中国(云南) China (Yunnan)	15
N. H. Xia	夏念和	Nianhe Xia	禾本科 Poaceae	中国 China	9
R. J. Wang	王瑞江	Ruijiang Wang	茜草科 Rubiaceae	中国 China	9
W. Y. Xie	谢文远	Wenyuan Xie	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	9
X. F. Jin	金孝锋	Xiaofeng Jin	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	9
X. H. Jin	金效华	Xiaohua Jin	兰科 Orchidaceae	中国 China	9
Y. H. Tong	童毅华	Yihua Tong	杜鹃花科和禾本科 Ericaceae and Poaceae	中国 China	9
Y. S. Chen	陈又生	Yousheng Chen	菊科 Asteraceae	中国 China	8
L. Wu	吴磊	Lei Wu	茜草科 Rubiaceae	中国 China	7
X. F. Gao	高信芬	Xinfen Gao	蕨类植物 Pteridophytes	中国 China	7
X. P. Fan	方忻平	Xinping Fang	蕨类植物 Pteridophytes	中国 China	7
C. L. Xiang	向春雷	Chunlei Xiang	唇形科 Lamiaceae	中国 China	6
D. G. Zhang	张代贵	Daigui Zhang	湖南植物 Plants of Hunan	中国 China	6
T. Deng	邓涛	Tao Deng	云南植物 Plants of Yunnan	中国(云南) China (Yunnan)	6
Y. Y. Cong	丛义艳	Yiyan Cong	凤仙花科 Balsaminaceae	中国 China	6
Yan Liu	刘演	Yan Liu	广西植物 Plants of Guangxi	中国(广西) China (Guangxi)	6
C. Liu	刘成	Cheng Liu	兰科 Orchidaceae	中国(云南) China (Yunnan)	5
F. Chen	陈锋	Feng Chen	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	5
G. W. Hu	胡光万	Guangwan Hu	凤仙花科 Balsaminaceae	中国 China	5
Q. E. Yang	杨亲二	Qiner Yang	菊科和毛茛科 Asteraceae and Ranunculaceae	中国 China	5
Q. Yuan	袁琼	Qiong Yuan	菊科和毛茛科 Asteraceae and Ranunculaceae	中国 China	5
Y. F. Lu	鲁益飞	Yifei Lu	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	5
Y. P. Zeng	曾佑派	Youpai Zeng	毛茛科 Ranunculaceae	中国 China	5
Li Bing Zhang	张丽兵	Libing Zhang	蕨类植物 Pteridophytes	全球 Globale	10
Bakalin		Vadim A. Bakalin	苔类植物 Marchantiophyta	全球 Globale	5
Fedosov		Vladimir E. Fedosov	苔类植物 Marchantiophyta	全球 Globale	5

附录5 2021年发表5个以上新组合的中外学者统计
Appendix 5 List of Chinese and foreign authors who published more than 5 new combinations in 2021

标准拼写 Stand name	中文姓名 Chinese name	西文拼写 Romanized name	研究领域 Research area	国家(地区) Country (region)	发表新组合数量 No. of new combinations
Z. H. Chen	陈征海	Zhenghai Chen	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	12
L. M. Lu	鲁丽敏	Limin Lu	葡萄科 Vitaceae	全球 Globle	8
W. T. Wang	王文采	Wentsai Wang	毛茛科 Ranunculaceae,	中国 China	7
W. Y. Xie	谢文远	Wenyuan Xie	浙江植物 Plants of Zhejiang	中国(浙江) China (Zhejiang)	7
Stapleton		Chris M. A. Stapleton	禾本科 Poaceae	亚洲 Asia	31
A. R. Sm.		Alan R. Smith	蕨类植物 Pteridophytes	全球 Globle	30
S. E. Fawc.		Susan E. Fawcett	蕨类植物 Pteridophytes	全球 Globle	30
G. Parmar		Gaurav Parmar	葡萄科 Vitaceae	全球 Globle	9
M. N. Tamura		Minoru N. Tamura	鸭跖草科 Commelinaceae	全球 Globle	8
C. K. Lee		Chung Kun Lee	鸭跖草科 Commelinaceae	全球 Globle	6
Fuse		Shizuka Fuse	鸭跖草科 Commelinaceae	全球 Globle	6

附录6 2021年中国植物新分类群学名中的中国作者名录

Appendix 6 List of Chinese authors in the scientific names of new taxa of Chinese plants in 2021

X. X. Bai

Bai, Xin Xiang; 白新祥 fl. 2021

贵州大学林学院 College of Forestry, Guizhou University

Taxa: *Asarum caudigerellum* C. Y. Cheng & C. S. Yang var. *huayeense* X. X. Bai & X. D. Cao; *Primulina silaniae* X. X. Bai & F. Wen

Z. Y. Cai

Cai, Zhuo Yu; 蔡卓谕 fl. 2021

中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences

Taxa: *Gelidocalamus fengkaiensis* N. H. Xia & Z. Y. Cai

H. L. Cao

Cao, Hong Lin; 曹洪麟 fl. 2021

中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences

Taxa: *Tigridiopalma longmenensis* Hui F. Wang, H. L. Cao & H. G. Ye

X. D. Cao

Cao, Xiao Dong; 曹晓栋 fl. 2021

贵州大学林学院 College of Forestry, Guizhou University

Taxa: *Asarum caudigerellum* C. Y. Cheng & C. S. Yang var. *huayeense* X. X. Bai & X. D. Cao

Yu H. Chang

Chang, Yu Hang; 常宇航 fl. 2021

中国科学院昆明植物研究所 Kunming Institute of Botany, Chinese Academy of Sciences

Taxa: *Rhododendron kuomeianum* Yu H. Chang, J. Nielsen & Y. P. Ma

G. K. Chen

Chen, Gao Kun; 陈高坤 fl. 2021

浙江农林大学暨阳学院 Jiyang College, Zhejiang A&F University

Taxa: *Rubus chenmouanus* Z. H. Chen, F. G. Zhang & G. K. Chen

Hai L. Chen

Chen, Hai Ling; 陈海玲 fl. 2021

广西壮族自治区中国科学院广西植物研究所 Guangxi Institute of Botany, Chinese Academy of Sciences

Taxa: *Phyllagathis elegans* Hai L. Chen, Yan Liu & Ying Liu

Wei Huan Chen

Chen, Wei Huan; 陈韦寰 fl. 2021

四川农业大学小麦研究所 Triticeae Research Institute, Sichuan Agricultural University

Taxa: *Campeiostrachys purpurarista* (C. P. Wang & X. L. Yang) Y. H. Zhou, H. Q. Zhang & Wei Huan Chen

Li Chen bis

Chen, Li; 陈丽 fl. 2021

中国科学院昆明植物研究所 Kunming Institute of Botany, Chinese Academy of Sciences

Taxa: *Tetrataenium mianguaqi* Ze H. Wang & Li Chen bis

X. Z. Chen

Chen, Xian Zhi; 陈献志 fl. 2021

临海市自然资源和规划局 Linhai Natural Resources and Planning Bureau, Zhejiang

Taxa: *Scutellaria fujianensis* Z. H. Chen, W. Y. Xie & X. Z. Chen

Yu Q. Chen

Chen, Yu Qiang; 陈裕强 fl. 2021

业余爱好者 Amateur

Taxa: *Gyrocheilos taishanense* G. T. Wang, Yu Q. Chen & R. J. Wang; *Michelia taishanensis* Y. H. Tong, X. E. Ye, X. H. Ye & Yu Q. Chen

Y. Hong Cheng

Cheng, Yue Hong; 程跃红 fl. 2021

四川卧龙国家级自然保护区管理局 Sichuan Wolong National Natural Reserve Administration Bureau

Taxa: *Pedicularis pandania* W. B. Yu, H. Q. Lin & Y. Hong Cheng

Z. Cheng

Cheng, Zhuo; 程卓 fl. 2021

中央民族大学生命与环境科学学院 College of Life and Environmental Sciences, Minzu University of China

Taxa: *Utricularia lihengiae* C. L. Long & Z. Cheng

C. L. Deng

Deng, Chong Ling; 邓崇岭 (1962-) fl. 2021

广西特色作物研究院 Guangxi Academy of Specialty Crops

Taxa: *Bergera unifolia* C. L. Deng & F. J. Mou

M. Q. Deng

Deng, Meng Qiu; 邓梦秋 fl. 2021

四川农业大学小麦研究所 Triticeae Research Institute, Sichuan Agricultural University

Taxa: *Campeioschachys calcicola* (Y. L. Keng) Y. H. Zhou, H. Q. Zhang & M. Q. Deng

C. C. Ding

Ding, Chang Chun; 丁长春 (1974-) fl. 2021

文山学院三七医药学院 School of Notoginseng and Medicine, Wenshan University

Taxa: *Cymbidium xichouense* Xin Y. Xu, C. C. Ding & S. R. Lan

X. P. Fan

Fan, Xue Ping; 范雪萍 fl. 2021

中国科学院成都生物研究所 Chengdu Institute of Biology, Chinese Academy of Sciences

Taxa: *Hypodematium brevipilosum* Li Bing Zhang, X. P. Fan & X. F. Gao; *Hypodematium eglandulosum* X. P. Fan, Liang Zhang & Li Bing Zhang; *Hypodematium parvisorum* Li Bing Zhang, X. P. Fan & X. F. Gao; *Hypodematium shingii* Li Bing Zhang, X. P. Fan & X. F. Gao; *Hypodematium subglabrum* Li Bing Zhang, X. P. Fan & X. F. Gao; *Hypodematium truncatum* Li Bing Zhang, X. P. Fan & X. F. Gao; *Selliguea wusugongii* Liang Zhang, X. P. Fan & Li Bing Zhang

H. Z. Feng

Feng, Hui Zhe; 冯会哲 fl. 2021

枣庄学院 Zaozhuang University

Taxa: *Rohdea wangiana* H. Z. Feng & Z. Qiang Lu

X. X. Feng

Feng, Xin Xin; 冯欣欣 fl. 2021

东莞市植物园 Dongguan Botanical Garden

Taxa: *Begonia fenshuilingensis* X. X. Feng, R. K. Li & Z. X. Liu; *Begonia pseudoedulis* D. K. Tian, X. X. Feng & R. K. Li

J. Z. Gu

Gu, Jian Zhong; 顾建中 fl. 2021

湖南文理学院 Hunan University of Arts and Science

Taxa: *Impatiens shangjiangensis* Y. Y. Cong & J. Z. Gu

Y. F. Gu

Gu, Yu Feng; 顾钰峰 fl. 2021

哈尔滨师范大学生命科学学院; 上海师范大学生命科学学院 College of Life Sciences, Harbin Normal University; College of Life Sciences, Shanghai Normal University

Taxa: *Isoetes baodongii* Y. F. Gu, Y. H. Yan & Yi J. Lu; *Sphaeropteris guangxiensis* Y. F. Gu & Y. H. Yan

X. Qiang Guo

Guo, Xin Qiang; 郭信强 fl. 2021

中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences

Taxa: *Artemisia fulgens* Pamp. var. *meiguensis* (Y. R. Ling) X. Qiang Guo, Long Wang & Q. E. Yang

T. S. Han

Han, Ting Shen; 韩廷申 fl. 2021

中国科学院西双版纳热带植物园 Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences

Taxa: *Rorippa hengduanshanensis* Q. J. Zheng, C. C. Yu, T. S. Han & Y. W. Xing

Z. D. Han

Han, Zhou Dong; 韩周东 fl. 2021

中国科学院昆明植物研究所 Kunming Institute of Botany, Chinese Academy of Sciences

Taxa: *Cheirostylis yei* J. D. Ya, Z. D. Han & H. Jiang; *Liparis aureolabella* J. D. Ya & Z. D. Han; *Paphiopedilum villosum* (Lindl.) Stein f. *wangliangii* O. Gruss & Z. D. Han

W. Q. Hu

Hu, Wen Qi; 胡雯琪 fl. 2021

福建农林大学园林学院 College of Landscape and Architecture, Fujian Agriculture and Forestry University
Taxa: *Cymbidium motuoense* W. Q. Hu, Qing H. Zhang & Z. J. Liu

Jian P. Huang

Huang, Jian Ping; 黄建平 fl. 2021
中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences
Taxa: *Amomum xizangense* L. Fu, Jian P. Huang & Y. S. Ye

Z. J. Huang

Huang, Zhang Jie; 黄章杰 fl. 2021
广西壮族自治区中国科学院广西植物研究所 Guangxi Institute of Botany, Chinese Academy of Sciences
Taxa: *Petrocosmea adenophora* Z. J. Huang & Z. B. Xin

L. Q. Jiang

Jiang, Li Qiong; 姜利琼 fl. 2021
云南大学生态学与环境 School of Ecology and Environmental Science, Yunnan University
Taxa: *Arundinella tengchongensis* (B. S. Sun & Z. H. Hu ex S. L. Chen) L. Q. Jiang & H. Peng

Yue Jin

Jin, Yue; 金钥 fl. 2021
华东师范大学生命科学学院 School of Life Sciences, East China Normal University
Taxa: *Anoectochilus medogensis* H. Z. Tian & Yue Jin

J. J. Lei

Lei, Jia Jun; 雷家军 (1966-) fl. 2021
沈阳农业大学园艺学院 Horticultural College, Shenyang Agricultural University
Taxa: *Fragaria emeiensis* J. J. Lei

G. D. Li

Li, Guo Dong; 李国栋 (1984-) fl. 2021
云南中医药大学 Yunnan University of Chinese Medicine
Taxa: *Isotrema pseudohei* X. X. Zhu, Jun Wang tris & G. D. Li

H. D. Li

Li, Hua Dong; 李华东 fl. 2021

业余爱好者 Amateur

Taxa: *Litsea cubeba* (Lour.) Pers. f. *rubra* G. Y. Li, Z. H. Chen & H. D. Li

Jian L. Li

Li, Jian Ling; 李健玲 fl. 2021
广西壮族自治区中国科学院广西植物研究所 Guangxi Institute of Botany, Chinese Academy of Sciences
Taxa: *Spiradiclis reticulata* L. Wu, Quan Yuan & Jian L. Li

M. T. Li

Li, Man Ting; 李满婷 fl. 2021
西南大学生命科学学院 College of Life Sciences, Southwest University
Taxa: *Euphorbia motuogensis* M. T. Li, X. Z. Lan, H. P. Deng & W. L. Cheng

P. W. Li

Li, Peng Wei; 李鹏伟 fl. 2021
中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences
Taxa: *Primulina clausa* P. W. Li & M. Kang

R. K. Li

Li, Ren Kun; 李仁坤 fl. 2021
湖北恩施冬升植物开发有限公司 Enshi Dongsheng Plant Development Co. Ltd., Hubei
Taxa: *Begonia fenshuilingensis* X. X. Feng, R. K. Li & Z. X. Liu; *Begonia pseudoedulis* D. K. Tian, X. X. Feng & R. K. Li

X. C. Li

Li, Xiao Chun; 李晓春 fl. 2021
中南林业科技大学林学院 College of Forestry, Central South University of Forestry and Technology
Taxa: *Vicia mingyueshanensis* Z. Y. Xiao & X. C. Li

J. J. Liao

Liao, Jun Jie; 廖俊杰 fl. 2021
中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences
Taxa: *Mitreola bullata* Y. S. Chen & J. J. Liao

D. L. Lin

Lin, Dong Liang; 林东亮 fl. 2021

中国科学院植物研究所 Institute of Botany, Chinese Academy of Sciences

Taxa: *Ponerorchis gongshanensis* X. H. Jin, Schuit. & D. L. Lin

H. Q. Lin

Lin, Hong Qiang; 林红强 fl. 2021

四川卧龙国家级自然保护区管理局 Shichuan Wolong National Natural Reserve Administration

Taxa: *Pedicularis pandania* W. B. Yu, H. Q. Lin & Y. Hong Cheng

W. Q. Lin

Lin, Wei Qi; 林巍岐 fl. 2021

浙江省金华市千方医药有限公司 Jinhua Qianfang Pharmaceutical Co., Ltd., Zhejiang

Taxa: *Meliosma platypoda* Rehder & E. H. Wilson subsp. *jinhuaensis* Z. H. Chen, Jian S. Wang & W. Q. Lin

D. H. Liu

Liu, Dan Hui; 刘丹慧 fl. 2021

北京师范大学生命科学院 College of Life Sciences, Beijing Normal University

Taxa: *Pseudolappula occultata* (Popov) Q. R. Liu & D. H. Liu

Hui H. Liu

Liu, Hui Hua; 刘辉华 fl. 2021

湘西民族职业技术学院 Xiangxi Vocational and Technical College for Nationalities

Taxa: *Polygonatum hunanense* Hui H. Liu & B. Z. Wang

Ju L. Liu

Liu, Ju Lian; 刘菊莲 fl. 2021

浙江九龙山国家级自然保护区管理中心 Administration of Zhejiang Jiulongshan National Natural Reserve, Suichang

Taxa: *Rubus suichangensis* (P. L. Chiu ex L. Qian & X. F. Jin) Z. H. Chen & Ju L. Liu

Qun Liu

Liu, Qun; 刘群 fl. 2021

云南师范大学生命科学学院 School of Life Science, Yunnan Normal University

Taxa: *Trichosanthes sunhangii* D. G. Zhang, Zhi M. Li, Qun Liu & T. Deng; *Youngia hangii* T. Deng, D. G. Zhang, Qun Liu & Zhi M. Li

S. H. Liu

Liu, Shih-Hui; 劉世慧 fl. 2021

台湾中山大学生物科学系 Department of Biological Sciences, Sun Yat-sen University, Taiwan

Taxa: *Pogostemon monticola* T. C. Hsu, S. W. Chung, S. H. Liu & W. J. Huang

W. J. Liu

Liu, Wen Jian; 刘文剑 fl. 2021

中南林业科技大学林学院 College of Forestry, Central South University of Forestry and Technology

Taxa: *Cardamine hunanensis* Al-Shehbaz, L. Wu & W. J. Liu

Xiao J. Liu

Liu, Xiao Juan; 刘晓娟 fl. 2021

甘肃农业大学林学院 College of Forestry, Gansu Agricultural University

Taxa: *Oreocharis wenxianensis* Xiao J. Liu & X. G. Sun

X. Q. Liu

Liu, Xiu Qun; 刘秀群 fl. 2021

华中农业大学园艺林学学院 College of Horticulture & Forestry Sciences, Huazhong Agricultural University

Taxa: *Vitis shizishanensis* Z. Y. Ma, J. Wen, Q. Fu & X. Q. Liu

Z. X. Liu

Liu, Zhi Xian; 刘志贤 fl. 2021

东莞市植物园 Dongguan Botanical Garden

Taxa: *Begonia fenshuilingensis* X. X. Feng, R. K. Li & Z. X. Liu

Xiao Luo

Luo, Xiao; 罗萧 fl. 2021

福建省林业勘察设计院 Fujian Provincial Forestry Survey and Design Institute

Taxa: *Pseudostellaria wuyishanensis* Xiao Luo & Q. Y. Yang

Z. Y. Ma

Ma, Zhi Yao; 马志尧 fl. 2021

华中农业大学园艺林学学院 College of Horticulture & Forestry Sciences, Huazhong Agricultural University

Taxa: *Vitis shizishanensis* Z. Y. Ma, J. Wen, Q. Fu & X. Q. Liu

W. Q. Meng

Meng, Wei Qi; 孟炜淇 fl. 2021

安徽师范大学生命科学学院 College of Life Sciences, Anhui Normal University

Taxa: *Shoubiaonia* W. H. Qin, W. Q. Meng & Kun Liu; *Shoubiaonia yunnanensis* W. H. Qin, W. Q. Meng & Kun Liu

F. Y. Mo

Mo, Fu Yan; 莫佛艳 fl. 2021

深圳市中国科学院仙湖植物园 Fairy Lake Botanical Garden, Shenzhen and Chinese Academy of Sciences

Taxa: *Aspidistra latistyla* F. Y. Mo, C. R. Lin & Yan Liu

H. M. Pei

Pei, Hui Ming; 裴会明 fl. 2021

甘肃省小陇山林业实验局林业科学研究所 Gansu Xiaolongshan Research Institute of Forest Science, Tianshui

Taxa: *Solanum pilosus* H. M. Pei

S. Peng

Peng, Shuai; 彭帅 fl. 2021

中国科学院武汉植物园 Wuhan Botanical Garden, Chinese Academy of Sciences

Taxa: *Impatiens longiaristata* S. Peng, G. W. Hu & Q. F. Wang

Z. J. Shan

Shan, Zhang Jian; 单章建 fl. 2021

江西中医药大学 Jiangxi University of Chinese Medicine

Taxa: *Mitreola lincangensis* Z. J. Mu, Z. J. Shan & B. Pan

X. Z. Shi

Shi, Xi Zuo; 史习佐 fl. 2021

中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences

Taxa: *Henckelia connata* X. Z. Shi & Li H. Yang; *Henckelia inaequalifolia* Li H. Yang & X. Z. Shi

J. P. Shu

Shu, Jiang Ping; 舒江平 fl. 2021

中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences

Taxa: *Dryopteris wulingshanensis* J. P. Shu, Y. H. Yan & R. J. Wang

Y. X. Song

Song, Yong Xiu; 宋永秀 fl. 2021

湖南师范大学生命科学学院 College of Life Sciences, Hunan Normal University

Taxa: *Impatiens longshanensis* Y. Y. Cong & Y. X. Song

Y. L. Su

Su, Yu Lan; 苏钰岚 fl. 2021

广西壮族自治区中国科学院广西植物研究所 Guangxi Institute of Botany, Chinese Academy of Sciences

Taxa: *Phyllagathis impressinervia* Y. L. Su, Yan Liu & Ying Liu

L. Tan

Tan, Lu; 谭璐 fl. 2021

吉首大学药学院 School of Pharmaceutical Sciences, Jishou University

Taxa: *Hemiboea gracilis* Franch. var. *guixiensis* G. X. Chen, X. M. Xiang & L. Tan

Sheng H. Tang

Tang, Sheng Hu; 汤升虎 (1986-) fl. 2021

贵州省植物园 Guizhou Botanical Garden

Taxa: *Petrocosmea duyunensis* Sheng H. Tang

Z. L. Tang

Tang, Zhen Lang; 唐真郎 fl. 2021

广西林业集团有限公司 Guangxi Forestry Group Co. Ltd.

Taxa: *Petrocosmea duyunensis* Sheng H. Tang

Missed as: L. Z. Tang

Bo Wang bis

Wang, Bo; 王波 (1988-) fl. 2021

贵州中医药大学药学院 School of Pharmacy, Guizhou University of Traditional Chinese Medicine

Taxa: *Disporum dushanense* Bo Wang bis, Ze H. Wang & Q. W. Sun

Hui F. Wang

Wang, Hui Feng; 汪惠峰 fl. 2021

中国科学院华南植物园 South China Botanical Garden,
Chinese Academy of Sciences

Taxa: *Tigridiopalma longmenensis* Hui F. Wang, H. L. Cao
& H. G. Ye

Ya R. Wang

Wang, Ya Rong; 王亚荣 fl. 2021

中山大学生命科学学院 School of Life Sciences, Sun Yat-sen University

Taxa: *Selaginella iridescens* X. C. Zhang & Ya R. Wang

Yong Wang tetrakis

Wang, Yong; 王勇 fl. 2021

陕西理工大学 Shaanxi University of Technology

Taxa: *Capsulea* Yong Wang tetrakis; *Capsulea bashanensis*
Yong Wang tetrakis; *Oreorchis bashanensis* Yong Wang
tetrakis

Zi Wang

Wang, Zi; 王孜 fl. 2021

中国科学院植物研究所 Institute of Botany, Chinese
Academy of Sciences

Taxa: *Calanthe* × *yarlungzangboensis* P. P. Wu & Zi Wang

Z. Y. Wei

Wei, Zuo Ying; 魏作影 fl. 2021

广东省深圳市兰科植物保护研究中心 The Orchid
Conservation & Research Center of Shenzhen, Guangdong

Taxa: *Dipteris shenzhenensis* Y. H. Yan & Z. Y. Wei;
Haplopteris centrochinensis (Ching ex J. F. Cheng) Y. H. Yan,
Z. Y. Wei & X. C. Zhang

P. Y. Wu

Wu, Peng Yu; 吴鹏宇 fl. 2021

南阳理工学院 Nanyang Institute of Technology

Taxa: *Bulbophyllum versicolor* Z. Zhou, P. Y. Wu & Z. J. Liu

P. P. Wu

Wu, Po Po; 武浚浚 fl. 2021

中国科学院植物研究所 Institute of Botany, Chinese
Academy of Sciences

Taxa: *Calanthe* × *yarlungzangboensis* P. P. Wu & Zi Wang

Wei J. Wu

Wu, Wei Jian; 吴伟建 fl. 2021

浙江省松阳县林业局 Songyang Forestry Bureau, Zhejiang

Taxa: *Asarum caudigerum* Hance f. *leptophyllum* (Hayata)
Wei J. Wu, J. F. Wang & Z. H. Chen

Yi H. Wu

Wu, Yi Hsuan; 吴亦烜 fl. 2021

台湾清华大学 Tsing Hua University, Taiwan

Taxa: *Lomariopsis longini* L. Y. Kuo & Yi H. Wu;
Lomariopsis moorei Yi H. Wu & L. Y. Kuo

X. M. Xiang

Xiang, Xiao Mei; 向晓媚 fl. 2021

吉首大学 Jishou University

Taxa: *Hemiboea gracilis* Franch. var. *guixiensis* G. X. Chen,
X. M. Xiang & L. Tan

Z. Y. Xiao

Xiao, Zhi Yong; 肖智勇 fl. 2021

宜春科学院 Yichun Academy of Sciences, Jiangxi

Taxa: *Vicia mingyueshanensis* Z. Y. Xiao & X. C. Li

Y. W. Xing

Xing, Yao Wu; 星耀武 fl. 2021

中国科学院西双版纳热带植物园 Xishuangbanna Tropical
Botanical Garden, Chinese Academy of Sciences

Taxa: *Rorippa hengduanshanensis* Q. J. Zheng, C. C. Yu, T.
S. Han & Y. W. Xing

C. Xiong

Xiong, Chi; 熊驰 (1995-) fl. 2021

西南大学生命科学学院 School of Life Sciences,
Southwest University

Taxa: *Pellionia jinyunensis* C. Xiong, F. Chen & H. P. Deng

S. Q. Xu

Xu, Shao Qing; 徐绍清 fl. 2021

浙江省慈溪市农林局 Cixi Agriculture and Forestry Bureau,
Zhejiang

Taxa: *Salix mesnyi* Hance var. *tsoongii* (W. C. Cheng) Z. H.
Chen, W. Y. Xie & S. Q. Xu

Xin Y. Xu

Xu, Xin Yu; 许新宇 fl. 2021

福建农林大学园林学院 College of Landscape Architecture,
Fujian Agriculture and Forestry University

Taxa: *Cymbidium xichouense* Xin Y. Xu, C. C. Ding & S. R.
Lan

Y. C. Xu

Xu, Ye Chun; 徐晔春 fl. 2021

广东省农业科学院环境园艺研究所 Environmental
Horticulture Research Institute, Guangdong Academy of
Agricultural Sciences

Taxa: *Tigridiopalma exalata* S. Jin Zeng, Y. C. Xu & D. F.
Cui

Y. D. Xu

Xu, Yi Da; 徐一大 fl. 2021

中国科学院华南植物园 South China Botanical Garden,
Chinese Academy of Sciences

Taxa: *Hedyotis puberulifolia* Y. D. Xu & R. J. Wang;
Hedyotis pubirachis Y. D. Xu & R. J. Wang

Z. C. Xu

Xu, Zu Chang; 许祖昌 fl. 2021

中国科学院昆明植物研究所 Kunming Institute of Botany,
Chinese Academy of Sciences

Taxa: *Gigantochloa glabrata* N. H. Xia & Y. Zeng ex D. Z.
Li & Z. C. Xu

F. B. Yan

Yan, Fu Bin; 颜福彬 fl. 2021

温岭市自然资源和规划局 Wenling Natural Resources and
Planning Bureau of Zhejiang

Taxa: *Pieris japonica* (Thunb.) D. Don ex G. Don f. *rubra* F.
B. Yan, G. Y. Li & Z. H. Chen

Q. Y. Yang

Yang, Qi Yi; 阳启屹 fl. 2021

福建农林大学林学院 Forestry College, Fujian Agriculture
and Forestry University

Taxa: *Pseudostellaria wuyishanensis* Xiao Luo & Q. Y. Yang;
Vincetoxicum emeiense Si Y. Zeng & Q. Y. Yang

Z. Yang

Yang, Zhi; 杨志 fl. 2021

贵州省黎平县林业局 Liping County Forestry Bureau,
Guizhou

Taxa: *Yushania lipingensis* Z. Yang, Z. X. Zhang & Y. H.
Tong

Zhi Yang

Yang, Zhi; 杨智 fl. 2021

中国科学院植物研究所 Institute of Botany, Chinese
Academy of Sciences

Taxa: *Phoebe jinpingensis* Bing Liu, Y. Yang, W. Y. Jin & Zhi
Yang

S. W. Yao

Yao, Shi Wei; 姚世伟 fl. 2021

江苏省中国科学院植物研究所 Institute of Botany, Jiangsu
Province and Chinese Academy of Sciences

Taxa: *Phyllagathis chongzuensis* Zhe Zhang, S. W. Yao &
S. Jin Zeng

X. H. Ye

Ye, Xue He; 叶雪荷 fl. 2021

中国科学院华南植物园 South China Botanical Garden,
Chinese Academy of Sciences

Taxa: *Michelia taishanensis* Y. H. Tong, X. E. Ye, X. H. Ye
& Yu Q. Chen

D. H. Yin

Yin, Dan Hong; 尹丹红 fl. 2021

邵阳学院 Shaoyang University

Taxa: *Elatostema* ser. *Xingyiensis* L. D. Duan & D. H. Yin;
Elatostema xingyiense L. D. Duan & D. H. Yin

M. Z. Yin

Yin, Min Zhen; 尹旻臻 fl. 2021

中国中医科学院中药资源中心 National Resource Center
for Chinese Materia Medica, China Academy of Chinese
Medical Sciences

Taxa: *Aconitum anhuiense* Lu Q. Huang, H. S. Peng & M. Z.
Yin

F. Y. Yu

Yu, Feng Yang; 于凤扬 fl. 2021

上海植物园 Shanghai Botanical Garden

Taxa: *Iris* × *ampliflora* Y. E Xiao, F. Y. Yu & X. F. Zhou

R. X. Yu

Yu, Run Xian; 于润贤 fl. 2021

中山大学生命科学学院 School of Life Sciences, Sun Yat-sen University

Taxa: *Balanophora appressa* R. X. Yu & S. Y. Zhou;
Balanophora parajaponica R. X. Yu, S. Y. Zhou & Y. Q. Li

X. Yu

Yu, Xia; 俞霞 fl. 2021

福建农林大学园林学院 College of Landscape Architecture, Fujian Agriculture and Forestry University

Taxa: *Cymbidium weishanense* X. Yu & Z. J. Liu

Yan Yu

Yu, Yan; 余岩 (1986) fl. 2021

四川大学生命科学学院 College of Life Sciences, Sichuan University

Taxa: *Codonopsis atriplicifolia* Yan Yu & Qiang Wang

Quan Yuan

Yuan, Quan; 袁泉 fl. 2021

广西壮族自治区中国科学院广西植物研究所 Guangxi Institute of Botany, Chinese Academy of Sciences

Taxa: *Spiradiclis reticulata* L. Wu, Quan Yuan & Jian L. Li

L. Y. Zeng

Zeng, Lin Ya; 曾琳雅 fl. 2021

仲恺农业工程学院 Zhongkai University of Agriculture and Engineering

Taxa: *Hellenia deliniana* Juan Chen, L. Y. Zeng & N. H. Xia;
Hellenia oblonga (S. Q. Tong) Juan Chen, L. Y. Zeng & N. H. Xia;
Hellenia viridis (S. Q. Tong) Juan Chen, L. Y. Zeng & N. H. Xia

Si Y. Zeng

Zeng, Si Yuan; 曾思源 fl. 2021

西南大学园艺园林学院 College of Horticulture and Landscape Architecture, Southwest University

Taxa: *Ligustrum fengjieense* Xian Y. Li & Si Y. Zeng;
Vincetoxicum emeiense Si Y. Zeng & Q. Y. Yang

Huan Zhang

Zhang, Huan; 张欢 fl. 2021

石河子大学生命科学学院 College of Life Sciences, Shihezi University

Taxa: *Astragalus taledensis* P. Yan & Huan Zhang

Qing H. Zhang

Zhang, Qing Hai; 张清海 fl. 2021

福建省诏安县飘香兰园 Zhao'an Piaoxiang Orchid Garden, Fujian

Taxa: *Cymbidium motuoense* W. Q. Hu, Qing H. Zhang & Z. J. Liu

R. P. Zhang

Zhang, Ruo Peng; 张若鹏 fl. 2021

中国科学院植物研究所 Institute of Botany, Chinese Academy of Sciences

Taxa: *Ohashia* X. Y. Zhu & R. P. Zhang; *Ohashia yunnanensis* (Chun & F. C. How) X. Y. Zhu & R. P. Zhang

S. Y. Zhang

Zhang, Si Yu; 张思宇 fl. 2021

安徽师范大学生命科学学院 College of Life Sciences, Anhui Normal University

Taxa: *Lycoris wulingensis* S. Y. Zhang

Ting Zhang

Zhang, Ting; 张挺 fl. 2021

中国科学院昆明植物研究所 Kunming Institute of Botany, Chinese Academy of Sciences

Taxa: *Bulbophyllum ximaense* J. D. Ya & Ting Zhang;
Myrmecis lingulata J. D. Ya, Ting Zhang & C. Liu

Wen Hua Zhang

Zhang, Wen Hua; 张文华 fl. 2021

华南农业大学林学与风景园林学院 College of Forestry and Landscape Architecture, South China Agricultural University

Taxa: *Leptopus malipoensis* Wen Hua Zhang & Gang Yao

Xi X. Zhang

Zhang, Xi Xi; 张茜茜 fl. 2021

中国科学院华南植物园 South China Botanical Garden, Chinese Academy of Sciences

Taxa: *Carex maolanensis* Y. F. Deng & Xi X. Zhang

Y. Y. Zhang

Zhang, You Yuan; 张友元 fl. 2021

中国科学院华南植物园 South China Botanical Garden,
Chinese Academy of Sciences

Taxa: *Yushania doupengshanensis* Y. Y. Zhang & N. H. Xia

Zhe Zhang

Zhang, Zhe; 张哲 fl. 2021

西南林业大学林学院 College of Forestry, Southwest
Forestry University

Taxa: *Phyllagathis chongzuoensis* Zhe Zhang, S. W. Yao &
S. Jin Zeng

Zhi Yong Zhang

Zhang, Zhi Yong; 张志勇 fl. 2021

内江师范学院生命科学学院 College of Life Sciences,
Neijiang Normal University

Taxa: *Astragalus wui* M. Idrees & Zhi Yong Zhang

Y. Zhao

Zhao, Yue; 赵越 fl. 2021

中国科学院昆明植物研究所 Kunming Institute of Botany,
Chinese Academy of Sciences

Taxa: *Phlomoides liangwangshanensis* Y. Zhao, H. L. Zheng
& C. L. Xiang

A. G. Zhen

Zhen, Ai Guo; 甄爱国 fl. 2021

湖北省英山县林业局 Forest Bureau of Yingshan, Hubei

Taxa: *Allium yingshanense* D. Q. Huang, A. G. Zhen & X. X.
Zhu

Q. J. Zheng

Zheng, Quan Jing; 郑全晶 fl. 2021

中国科学院西双版纳热带植物园 Xishuangbanna Tropical
Botanical Garden, Chinese Academy of Sciences

Taxa: *Rorippa hengduanshanensis* Q. J. Zheng, C. C. Yu, T.
S. Han & Y. W. Xing

S. Y. Zhou

Zhou, Song Yan; 周松岩 fl. 2021

中山大学生命科学学院 School of Life Sciences, Sun Yat-
sen University

Taxa: *Balanophora appressa* R. X. Yu & S. Y. Zhou;
Balanophora parajaponica R. X. Yu, S. Y. Zhou & Y. Q. Li

X. F. Zhou

Zhou, Xiao Feng; 周孝峰 fl. 2021

重庆市花香园艺有限公司 Flower Fragrance Horticulture
Limited Company, Chongqing

Taxa: *Iris × ampliflora* Y. E. Xiao, F. Y. Yu & X. F. Zhou

Missed as: X. F. Chen

Y. R. Zhu

Zhu, Yi Rong; 朱遗荣 fl. 2021

武义县牛头山植物标本馆 Wuyi Niutoushan Herbarium,
Zhejiang

Taxa: *Acer changhuaense* (W. P. Fang & M. Y. Fang) W. P.
Fang & P. L. Chiu var. *trilobum* Z. H. Chen, Y. R. Zhu & X.
F. Jin

Y. Y. Zhu

Zhu, Yi Yao; 朱艺耀 fl. 2021

福建省云霄县林业局 Yunxiao County Forestry Bureau,
Fujian

Taxa: *Vaccinium zhangzhouense* Y. H. Tong, Y. Y. Zhu & N.
H. Xia

2021 年之前未被《中国植物分类学者》收录的植物命名人

Xiao R. Wang

Wang, Xiao Rui; 王晓蕊 fl. 2011

河北师范大学生命科学学院 College of Life Sciences,
Hebei Normal University

Taxa: *Haplodontium altunense* Xiao R. Wang & S.
Mamtimin

Zhi Wang

Wang, Zhi; 王智 fl. 2017

中国科学院武汉植物园 Wuhan Botanical Garden, Chinese
Academy of Sciences

Taxa: *Aspidistra longhuiensis* G. W. Hu, Zhi Wang & Q. F.
Wang

Z. J. Mu

Mu, Ze Jing; 慕泽泾 fl. 2019

江西中医药大学 Jiangxi University of Chinese Medicine

Taxa: *Mitreola lincangensis* Z. J. Mu, Z. J. Shan & B. Pan

A. Liu

Liu, Ang; 刘昂 (1995-) fl. 2020

中南林业大学林学院 College of Forestry, Central South
University of Forestry & Technology

Taxa: *Primulina cataractarum* X. L. Yu & A. Liu

Z. Y. Niu

Niu, Zheng Yang; 钮峥洋 fl. 2020

中国科学院华南植物园 South China Botanical Garden,
Chinese Academy of Sciences

Taxa: *Bambusa suijiangensis* J. B. Ni, Z. Y. Niu & Y. H. Tong;
Pleioblastus triangulata (Hsueh & T. P. Yi) N. H. Xia, Y. H.
Tong & Z. Y. Niu

L. N. Zhang

Zhang, Li Na; 张莉娜 (1971-) fl. 2016

华东师范大学生命科学学院 School of Life Sciences, East
China Normal University

Taxa: *Radula subacuminata* L. N. Zhang & R. L. Zhu

Xia Y. Ye

Ye, Xia Ying; 叶夏英 fl. 2020

中国科学院昆明植物研究所 Kunming Institute of Botany,
Chinese Academy of Sciences

Taxa: *Fargesia viridis* D. Z. Li & Xia Y. Ye

Shuo Shi

Shi, Shuo; 石硕 (1980-) fl. 2013

河北师范大学生命科学学院 College of Life Sciences,
Hebei Normal University

Taxa: *Prunus tianshanica* (Pojarkov) Shuo Shi

附录7 2021年中国植物分类群学名中被致敬人名录

Appendix 7 List of honored persons in the scientific names of new taxa of Chinese plants in 2021

中国学者

F. H. Chen

Chen, Feng Hwai; Chen, Feng Huai; Ch'ên, Fêng Huai;
Chen, Feng Huei; **陈封怀** 1900-1993
Taxa: *Fenghwaia* G. T. Wang & R. J. Wang 封怀木属

C. Chen

Chen, Chieh; Chen, Jie; Chen, Cheih; **陈介** 1928-2011
Taxa: *Amblyanthus chenii* Z. Zhou & H. Sun 墨脱锥药金牛

Chen, Mou; **陈谋** 1903-1935
Taxa: *Rubus chenmouanus* Z. H. Chen, F. G. Zhang & G. K. Chen 陈谋悬钩子

C. Y. Cheng

Cheng, Ching Yung; Chang, Jing Rong; Cheng, Jing Rong;
诚静容 1913-2012
Taxa: *Ephedra chengiae* Y. Yang & D. K. Ferguson 诚氏麻黄

Dai, Si Lan; **戴思兰**
Taxa: *Primulina silaniae* X. X. Bai & F. Wen 思兰报春苣苔

D. Fang

Fang, Ding; **方鼎** 1926-2017
Taxa: *Amomum fangdingii* X. E. Ye, Škorničk. & N. H. Xia 方鼎豆蔻

K. M. Feng

Feng, Kuo Mei; Fêng, Kuo Mei; Feng, Guo Mei; **冯国楣**
1917-2007
Taxa: *Rhododendron kuomeianum* Yu H. Chang, J. Nielsen & Y. P. Ma 国楣杜鹃

Keng

Keng, Yi Li; Keng, I Li; Geng, Yi Li; **耿以礼** 1897-1975
Taxa: *Poa kengii* Olonova & Sylvester

He, Jiang Hai; **何疆海**

Taxa: *Agapetes heana* Y. H. Tong & J. D. Ya 疆海树萝卜

F. C. How

How, Foon Chew; Hou, Kuan Chao; Hou, K'uan Chao;
Hou, Kuan Zhao; **侯宽昭** 1908-1959
Taxa: *Hedyotis howii* G. B. Jiang & R. J. Wang

S. M. Hwang

Hwang, Shu Mei; Huang, Shu Mei; **黄淑美** 1933-2019
Taxa: *Styrax hwangiae* M. Tang & W. B. Xu 淑美安息香

H. Li

Li, Heng; Li, Hen; **李恒** 1929-
Taxa: *Lihengia* Y. S. Chen & R. Ke 李恒菊属
Impatiens lihengiana Y. Y. Cong & G. W. Hu 李恒凤仙花;
Utricularia lihengiae C. L. Long & Z. Cheng 李恒挖耳草

Jian X. Li

Li, Jian Xiu; **李建秀** 1937-
Taxa: *Dryopteris lijianxiui* Xiao J. Li

Liu, Bao Dong; **刘保东** 1962-

Taxa: *Isoetes baodongii* Y. F. Gu, Y. H. Yan & Yi J. Lu 保东水韭

L. Liu

Liu, Liang; Liou, Liang; **刘亮** 1933-2001
Taxa: *Poa liuliangii* Olonova & Sylvester

Long, Ming Feng; **龙明峰**

Taxa: *Myrmechis longii* J. D. Ya 美脉全唇兰

S. J. Moore

Moore, Shann-Jye; Shànjié; **牟善傑;** 牟善杰 1966–2010
Taxa: *Lomariopsis moorei* Yi H. Wu & L. Y. Kuo

F. T. Pu

Pu, Fa Ting; Pu, Fa Ding; 溥发鼎 1936-

Taxa: *Cyclorhiza puana* Jing Zhou & Zhen W. Liu 炉霍环根芹

P. L. Chiu

Chiu, Pao Ling; Chiu, Pao Lin; Qiu, Bao Lin; 裘宝林 1936-

Taxa: *Photinia chiuana* Z. H. Chen, F. Chen & X. F. Jin 裘氏石楠

H. Sun

Sun, Hang; 孙航 1963-

Taxa: *Potentilla sunhangii* D. G. Zhang, Heng C. Wang & T. Deng; *Smelowskia sunhangii* T. Deng, X. J. Zhang & J. T. Chen 毛果藏芥; *Trichosanthes sunhangii* D. G. Zhang, Zhi M. Li, Qun Liu & T. Deng 神农架栝楼; *Youngia hangii* T. Deng, D. G. Zhang, Qun Liu & Zhi M. Li 五峰黄鹌菜

F. T. Wang

Wang, Fa Tsuan; Wang, Fa Zuan; 汪发纘 1899-1985

Taxa: *Rohdea wangiana* H. Z. Feng & Z. Qiang Lu

Wang, Liang; 王亮

Taxa: *Paphiopedilum villosum* (Lindl.) Stein f. *wangliangii* O. Gruss & Z. D. Han

T. L. Wu

Wu, Te Lin; Wu, Te Ling; Wu, De Lin; 吴德邻 1934-

Taxa: *Hellenia deliniana* Juan Chen, L. Y. Zeng & N. H. Xia 莴笋花

Y. H. Wu

Wu, Yu Hu; 吴玉虎 1951-

Taxa: *Astragalus wui* M. Idrees & Zhi Yong Zhang

S. K. Wu

Wu, Su Kung; Wu, Shu Gong; Wu, Su Gong; 武素功 1935-2013

Taxa: *Angiopteris sugongii* Gui L. Zhang, J. Y. Xiang & Ting Wang tris 素功莲座蕨; *Selliguea wusugongii* Liang Zhang, X. P. Fan & Li Bing Zhang 线叶假瘤蕨

K. H. Shing

Shing, Kung Hsia; Hsing, Kung Hsia; Xing, Gong Xia; Shing, Gung Hsia; 邢公侠 1929-

Taxa: *Hypodematium shingii* Li Bing Zhang, X. P. Fan & X. F. Gao

D. P. Ye

Ye, De Ping; 叶德平 1977-2020

Taxa: *Aspidistra depingiana* Y. H. Tan & H. B. Ding 景洪蜘蛛抱蛋; *Cheirostylis yei* J. D. Ya, Z. D. Han & H. Jiang 叶氏叉柱兰; *Gastrochilus yei* Jian W. Li & X. H. Jin 叶氏盆距兰

T. P. Yi

Yi, Tong Pei; 易同培 1933-2016

Taxa: *Tongpeia* Stapleton 同培竹属

Hung T. Chang

Chang, Hung Ta; Zhang, Hong Da; 张宏达 1914-2016

Taxa: *Rohdea changii* Hui Z. Feng & Z. Qiang Lu

C. C. Chang

Chang, Chao Chien; Chang, Chao Ch'ien; Zhang, Zhao Qian; 张肇骞 1900-1972

Taxa: *Thalictrum changii* Y. P. Zeng, Q. Yuan & Q. E. Yang

P. C. Tsoong

Tsoong, Pu Chiu; Tsoong, Pu Ch'iu; Chung, Pu Ch'iu; Zhong, Bu Qiu; 钟补求 1906-1981

Taxa: *Puchiumazus* Bo Li, D. G. Zhang & C. L. Xiang 补求草属

S. B. Zhou

Zhou, Shou Biao; 周守标 1964-

Taxa: *Shoubiaonia* W. H. Qin, W. Q. Meng & Kun Liu 守标蒜属

海外学者

Boufford

Boufford, David E. [United States]; 鲍隸伟 1941-

Taxa: *Thalictrum bouffordii* Y. P. Zeng, Q. Yuan & Q. E. Yang

Chayam.

Chayamarit, Kongkanda [Thailand] 1952-

Taxa: *Dolichos kongkandae* Meeboonya, Ngerns. & Balslev

H. Ohashi

Ohashi, Hiroyoshi [Japan]; 大桥广好 1936-

Taxa: *Ohashia* X. Y. Zhu & R. P. Zhang 异齿豆属

Rushforth

Rushforth, Keith D. [United Kingdom] 1953-

Taxa: *Cupressus rushforthii* Maerki & J. Hoch

Taram, Oyun

Taxa: *Begonia oyuniae* M. Taram & N. Krishna

Li Bing Zhang

Zhang, Li Bing [United States]; 张丽兵 1966-

Taxa: *Arachniodes libingii* Liang Zhang, N. T. Lu & T. T. Thanh