



•生物编目• 2020年新物种专题

中国膜翅目2020年新分类单元

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摘要: 本文对中国膜翅目昆虫2020年发表的新分类单元进行了梳理和总结。结合数据库检索和统计表格征集, 基于采自中国的膜翅目昆虫标本记录, 全世界膜翅目学者于2020年共发表涉及中国膜翅目分类单元的期刊论文104篇、出版1本图书专著, 分类单元新增及变动条目共469条: 4个新属(其中1个绝灭属), 1个新亚属, 321个新种(其中10个绝灭种), 8个新组合, 22个新异名, 1个中国新记录亚科, 18个中国新记录属, 93个中国新记录种, 1个替代名。绝灭类群有11条, 涉及3总科3科5属; 现生膜翅目有458条, 涵盖11总科29科170属, 其中6科40属不涉及新种。发表现生膜翅目新种的9总科23科130属: 广腰亚目(Symphyla)叶蜂总科(Tenthredinoidea) 23个新种; 细腰亚目(Apocrita)针尾部(Aculeata) 3个总科(蜜蜂总科(Apoidea) 29个新种、青蜂总科(Chrysidoidea) 2个新种、胡蜂总科(Vespoidea) 20个新种); 细腰亚目寄生部(Parasitica) 5个总科(小蜂总科(Chalcidoidea) 23个新种、瘿蜂总科(Cynipoidea) 12个新种、姬蜂总科(Ichneumonoidea) 206个新种、广腹细蜂总科(Platygastridae) 4个新种、钩腹蜂总科(Trigonalyoidea) 2个新种)。2020年发表的所有中国膜翅目新种中, 姬蜂总科新种数量最多, 约占全年发表新种总数的2/3。云南、浙江、西藏、福建和辽宁等5个省级行政区为2020年中国膜翅目新种分布最多的省份, 超过全年发表新种总数的1/2。基于以上结果, 本文对膜翅目分类学现状和发展前景进行了讨论。

关键词: 细腰亚目; 广腰亚目; 分类学报告; 新分类单元分布

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New taxa and taxonomic changes of Hymenoptera from China in 2020

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ABSTRACT

Aim: The aim of this study is to summarize the new taxa and taxonomic changes of Hymenoptera from China published in 2020.

Method: Through searching the available zoological databases and collecting data from Chinese hymenopterists, in 2020, 104 journal publications and 1 monograph related to the new taxa and taxonomic changes of Hymenoptera from China were obtained and analyzed.

Results: Based on these publications, 469 records of new taxa, new records and taxonomic changes of Hymenoptera from China were retrieved, including 4 new genera (1 extinct genus), 1 new subgenus, 321 new species (10 extinct species), 8 new combinations, 22 new synonyms, 1 newly recorded subfamily, 18 newly recorded genera, 93 newly recorded species, and 1 replaced name. In 11 records of them, 3 superfamilies, 3 families and 5 genera of extinct hymenopteran were involved. Another 458 records belong to 11 superfamilies, 29 families, 170 genera of extant Hymenoptera, of which 40 genera distributed in 6 families are only related to new distribution records or taxonomic changes. Among these 11 superfamilies, 9 superfamilies with new species published in 2020 include Symphyta:

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Tenthredinoidea (23 new species); Aculeata of Apocrita: Apoidea (29 new species), Chrysidoidea (2 new species), and Vespoidea (20 new species); Parasitica of Apocrita: Chalcidoidea (23 new species), Cynipoidea (12 new species), Ichneumonoidea (206 new species), Platygastroidea (4 new species), Trigonalioidea (2 new species).

Conclusions: Among the 9 superfamilies, Ichneumonoidea had the largest number (206) of new species by covering about 2/3 of 321 new species published in 2020. Five provinces with more new species published in 2020 are Yunnan, Zhejiang, Xizang, Fujian, and Liaoning, covering about 1/2 of the 321 new species. Moreover, the current status and future development of Hymenoptera taxonomy were discussed here based on these results.

Key words: Apocrita; Symphyta; taxonomic report; distribution of new taxa

对生物进行分类是人类认识自然的基础。昆虫是动物界最为繁盛的类群之一, 已发现的物种超过100万种(Zhang, 2011), 是全球生物多样性的重要组成部分, 更是生态系统服务不可或缺的重要基础。昆虫分类学也是动物分类学的重要组成部分。

膜翅目目前是昆虫纲第三大目, 其已知物种数量仅次于鞘翅目和鳞翅目(Aguiar et al, 2013)。根据膜翅目年代最老的长节叶蜂科(Xyelidae, 在现生类群里中文名常作棒蜂科)化石记录, 目前膜翅目的起源可追溯至三叠纪(Triassic), 距今约224个百万年(Peters et al, 2017)。截至目前, 膜翅目已描述的现生类群超过15万种, 已知绝灭物种2,000种以上(Aguiar et al, 2013)。据估测, 膜翅目实际物种数量将有望超过100万种(Forbes et al, 2018)。仅仅基于已知物种数量对膜翅目物种多样性进行的估计可能与实际情况存在显著差异。综合考虑昆虫纲四大目的分类学研究历史、受关注程度, 膜翅目分类的成熟度和广泛性可能不如鞘翅目和鳞翅目。膜翅目寄生类群的分类学研究相对匮乏, 其物种多样性可能被严重低估(Forbes et al, 2018)。

膜翅目不仅物种多样性丰富, 其形态学和生物学学习性也复杂多样, 因此其功能多样性也存在着较强的异质性。作为寄生者、捕食者、传粉者、分解者和植食者, 膜翅目在陆地生态系统中发挥着至关重要的作用, 其彰显的经济价值和重要性对人类而言也意义非凡。基于系统学和形态学, 膜翅目学家习惯将膜翅目分为广腰亚目(Symphyta)和细腰亚目(Apocrita)。本文从理解系统学的简洁性和易操作性角度出发, 依照传统仍然沿用广腰亚目和细腰亚目的亚目分类系统。广腰亚目包括叶蜂类(sawflies)、树蜂类(woodflies)和尾蜂(parasitic wood wasps)。除尾蜂为寄生性外, 叶蜂和树蜂的幼虫均为植食性。细腰亚目通常分为针尾部(Aculeata)和寄生部(Parasitica); 针尾部又从行为和生态功能上被分为

蜜蜂(bees)、蚂蚁(ants)和其他螫刺蜂类(stinging wasps), 而寄生部则包含了除针尾部之外的所有细腰类群。然而, 并不是所有的寄生部都行寄生行为。寄生部涵盖了膜翅目的大多数物种, 也正是膜翅目分类学中最为薄弱的部分。

截至目前, 我国尚未有关于膜翅目分类学进展的综述发表, 已知物种数量以及每年新分类单元的发表情况也未有详细报告。为了整合零散的膜翅目新分类单元发表记录, 本文基于数据库检索着重对中国膜翅目2020年新分类单元发表情况进行了整理和总结, 并依据文献记录对中国膜翅目近五年来新种的发表趋势进行了简要分析。

1 数据来源及分析

1.1 数据获取及整理

在统计之初, 作者设计了表格向中国膜翅目分类学者征集新分类单元(包括新种、新记录、新组合、新异名、新名称等)的发表情况。共征集到8份统计表格, 分别来自中国科学院动物研究所(姬小蜂科Eulophidae和蜜蜂总科Apoidea)、浙江大学(茧蜂科Braconidae)、国家林业和草原局森林和草原病虫害防治总站(姬蜂科Ichneumonidae)、重庆师范大学(胡蜂科Vespidae)、华南农业大学(缘腹细蜂科Scelionidae)、中山大学(缘腹细蜂科、肿腿蜂科Bethyidae、钩腹蜂科Trigonalidae、螫蜂科Dryinidae)、天津农业学院(跳小蜂科Encyrtidae)、甘肃农业大学(化石姬蜂科类群)。在此基础上, 作者对Zoological Record数据库和中国知网(www.cnki.net)数据库根据关键词组合(Hymenoptera, new species, China)和限定发表年度(2020/2019/2018/2017/2016)进行检索, 获取文献信息。经过检索和梳理, 最终共获取于2020年正式发表的104篇相关期刊论文和1部图书专著(《寄生叶蜂的姬蜂科天敌昆虫》)。据此整理完成“中国膜翅目分类单元新增和变动目录

2020”(附录1)。为方便和规范在中文中使用物种名,避免出现一个拉丁学名对应多个不恰当中文种名的现象,该附录提供了物种的中文名。附录中列出的中文名大部分由发表相应新分类单元的命名人提供,部分中文名由本文作者根据拉丁词源命名。

1.2 数据分析

将附录1中的数据转化为统计表格后导入R 4.0.5 (R Core Team, 2021)进行分析。除基础包外,使用到的R包还包括: ggplot2 (Villanueva & Chen, 2019), dplyr (Wickham et al, 2021), stringr (Wickham, 2019), ggwordcloud (Le Pennec & Slowikowski, 2019), tm (Feinerer et al, 2008)。

2 结果

2.1 中国膜翅目2020年新分类单元基本情况

2020年发表的中国膜翅目新分类单元中,现生膜翅目类群和绝灭类群新分类单元均有涉及,根据检索结果获取的新分类单元类别有:新属,新亚属,新种,新组合,新记录亚科,新记录属,新记录种,新异名,替代名。分类单元新增及变动条目共469条,包括:4个新属(其中1个绝灭属),1个新亚属,321个新种(其中10个绝灭种),8个新组合,22个新异名,1个新记录亚科,18个新记录属,93个中国新记录种,1个替代名。以上新分类单元发表情况包括细腰亚目435条,广腰亚目34条;除10个绝灭种外,细腰亚目新种288个(针尾部39个,寄生部249个),广腰亚目新种23个。

发表的绝灭类群包括:广腰亚目1新属9新种和细腰亚目1新种。发表的现生类群包括:广腰亚目2总科(叶蜂总科 Tenthredinoidea 和树蜂总科 Siricoidea);细腰亚目针尾部3总科(蜜蜂总科、青蜂总科 Chrysidoidea 和胡蜂总科 Vespoidea),寄生部6总科(小蜂总科 Chalcidoidea, 瘿蜂总科 Cynipoidea, 姬蜂总科 Ichneumonoidea, 广腹细蜂总科 Platygastroidea, 细蜂总科 Proctotrupoidea, 钩腹蜂总科 Trigonalioidea)。上述涉及发表新种的9个总科(树蜂总科和细蜂总科未涉及新种发表)共涵盖23科129属。其中,中国姬蜂总科2020年发表新种数量居首,多达206个,约占全年发表的中国现生膜翅目新种数量的66.2%。

2020年发表的中国膜翅目新记录均为现生类群,包括1个新记录亚科(隶属姬蜂科)、18个新记录

属(茧蜂科4属、姬蜂科14属)和93个新记录种(隶属7总科12科47属)(表1)。2020年提出的中国膜翅目22个新异名均为现生类群,隶属6总科9科13属。2020年发表的中国膜翅目8新组合均为现生类群,隶属2科3属。2020年发表的中国膜翅目1个替代名隶属切叶蜂科(Megachilidae)切叶蜂属(Megachile)。

2.2 新种和新记录种的省级分布情况

2020年发表的中国膜翅目新种的分布地涉及33个省级行政区,本年度没有发现膜翅目新种的省级行政区有1个,为上海市。新种发现数量超过20个的省级行政区有6个,包括云南、浙江、西藏、福建、辽宁和四川。新种发现数量在10–20个之间的省级行政区有12个,包括江西、贵州、台湾、广西、北京、山东、广东、湖南、吉林、海南、陕西和甘肃。新种发现数量在10个以下的省级行政区有15个,包括宁夏、湖北、香港、新疆、河北、黑龙江、河南、青海、安徽、江苏、内蒙古、天津、山西、重庆和澳门(图1)。

2020年发表的膜翅目中国新记录种的分布地记录有25个省级行政区,本年度没有发现膜翅目中国新记录种的省级行政区有9个(安徽、甘肃、香港、湖北、江苏、澳门、青海、上海、天津)。其中,新记录种数量超过20个的只有辽宁省,《寄生叶蜂的姬蜂科天敌昆虫》(盛茂领等, 2020)贡献了25个中国新记录种(隶属姬蜂科)。中国新记录种数量在10–20个的省级行政区有7个,包括云南、吉林、福建、浙江、广东、海南。中国新记录种数量在2个以上10个以下的省级单位有北京、贵州、宁夏和内蒙古。湖南、江西、山东、四川、台湾分别有2个新记录种。重庆、河北、河南、陕西、山西、西藏分别只有1个新记录种(图1)。

2.3 2020年发表中国膜翅目新分类单元的学者

2020年,发表10个绝灭种的2篇期刊论文共涉及13位论文作者和12个新种命名人,其中俄罗斯科学院A. A. Borissiak古生物学研究所的Dmitry S. Kopylov和Alexander P. Rasnitsyn、中国科学院南京地质古生物研究所的张海春、曲阜师范大学的张琦共同描述了8个绝灭种。

关于现生膜翅目类群,发表81个中国姬蜂科新种的中文图书专著《寄生叶蜂的姬蜂科天敌昆虫》的作者有3位,同时也是81个新种的命名人,均来自国家林业和草原局森林和草原病虫害防治总

表1 2020年中国膜翅目各科新种和新记录种数量(不含绝灭种)**Table 1** The number of new species and new records of Hymenoptera from China at the family level in 2020 (without extinct species)

亚目 Suborder	总科 Superfamily	中文科名 Family name in Chinese	科 Family	新种数量 No. of new species	新记录种数量 No. of new records
细腰亚目针尾部 Apocrita (Aculeata)	蜜蜂总科 Apoidea	方头泥蜂科	Crabronidae	7	3
		隧蜂科	Halictidae	4	2
		切叶蜂科	Megachilidae	5	0
		三室泥蜂科	Psenidae	3	0
	青蜂总科 Chrysidoidea	肿腿蜂科	Bethylidae	2	0
		螫蜂科	Dryinidae	0	1
	胡蜂总科 Vespoidea	蚁科	Formicidae	12	0
		蚁蜂科	Mutillidae	2	1
		胡蜂科	Vespidae	6	1
细腰亚目寄生部 Apocrita (Parasitica)	小蜂总科 Chalcidoidea	蚜小蜂科	Aphelinidae	1	2
		跳小蜂科	Encyrtidae	6	1
		姬小蜂科	Eulophidae	4	1
		旋小蜂科	Eupelmidae	2	0
		缨小蜂科	Mymaridae	7	0
		金小蜂科	Pteromalidae	3	0
	瘦蜂总科 Cynipoidea	瘦蜂科	Cynipidae	11	0
		环腹瘦蜂科	Figitidae	1	0
	姬蜂总科 Ichneumonoidea	茧蜂科	Braconidae	107	16
		姬蜂科	Ichneumonidae	99	49
	广腹细蜂总科 Platygastroidea	缘腹细蜂科	Scelionidae	4	15
	钩腹蜂总科 Trigonalyoidea	钩腹蜂科	Trigonalyidae	2	0
广腰亚目 Symphyta	叶蜂总科 Tenthredinoidea	三节叶蜂科	Argidae	2	0
		锤角叶蜂科	Cimbicidae	3	0
		叶蜂科	Tenthredinidae	18	0
	树蜂总科 Siricoidea	项蜂科	Xiphydriidae	0	1
合计 Total	10	25	25	311	93

站; 86篇期刊论文共计发表了230个中国现生膜翅目新种, 涉及论文作者209位、新种命名人108位(图2); 86篇期刊论文作者总数量为341 (平均每篇论文4位作者); 230个新种命名人总数量为530 (平均每个新种的命名人超过2人)。描述中国现生膜翅目新种数量居前的单位有国家林业和草原局森林和草原病虫害防治总站、浙江大学、江西师范大学、华东药用植物园、中国科学院动物研究所、香港大学、云南农业大学、重庆师范大学、新疆大学、中山大学等(表2)。描述 5个及以上新种的学者有23位, 其中描述物种数量最多的团队为国家林业和草原局森林和草原病虫害防治总站的盛茂领团队、浙江大学陈学新团队, 分别描述新种多达93和92个, 且描述

类群均属于姬蜂总科。其次为江西师范大学魏美才团队(叶蜂总科23个新种)、中国科学院动物研究所朱朝东团队(蜜蜂总科和姬小蜂科9个新种)、香港大学的Benoit Guénard团队(蚁科和三室泥蜂科8个新种)和云南农业大学李强团队(方头泥蜂科和泥蜂科7个新种)。

2.4 2020年发表中国膜翅目新种论文的期刊

2020年, 收录中国膜翅目昆虫新分类单元的论文或图书专著共计105篇(部), 涉及的期刊或出版社共计36个: SCI期刊21个, 其他期刊14个, 中国出版社1个; 收录绝灭类群的期刊2个, 其余33个期刊均收录现生类群。收录绝灭类群的期刊(*Alcheringa: An Australasian Journal of Palaeontology*) (2篇)和

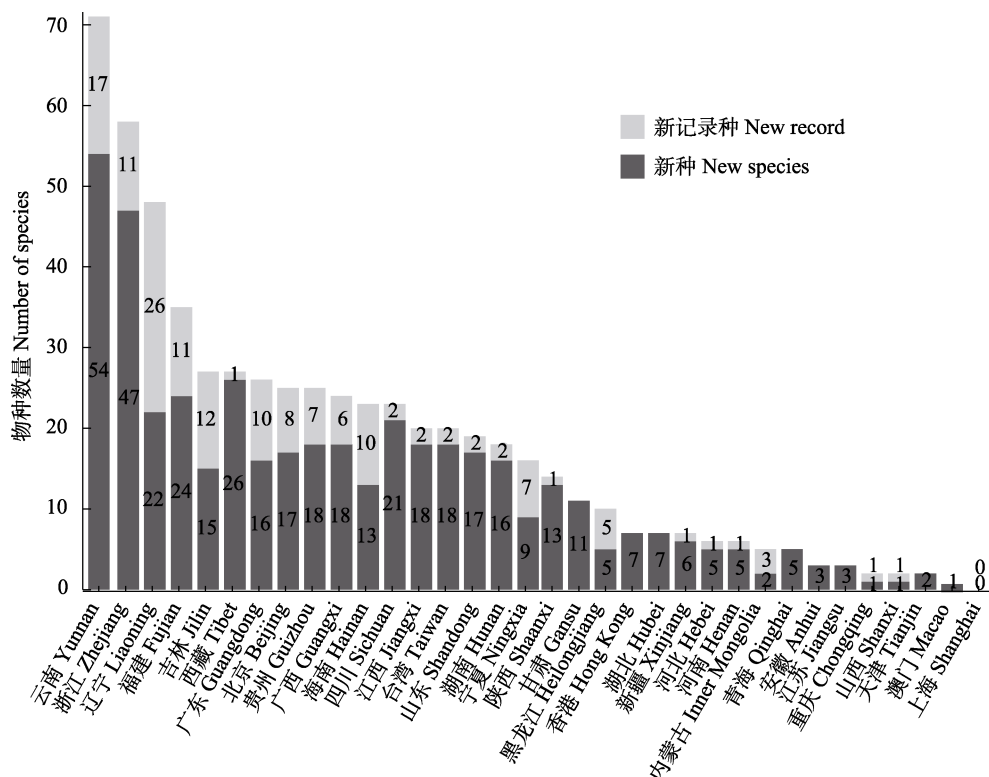


图1 2020年发表的中国膜翅目新种和新记录种在各省市区分布情况(不含绝灭种)

Fig. 1 The number of new species and new record species of Hymenoptera from China in 2020 in each province (without extinct taxa)

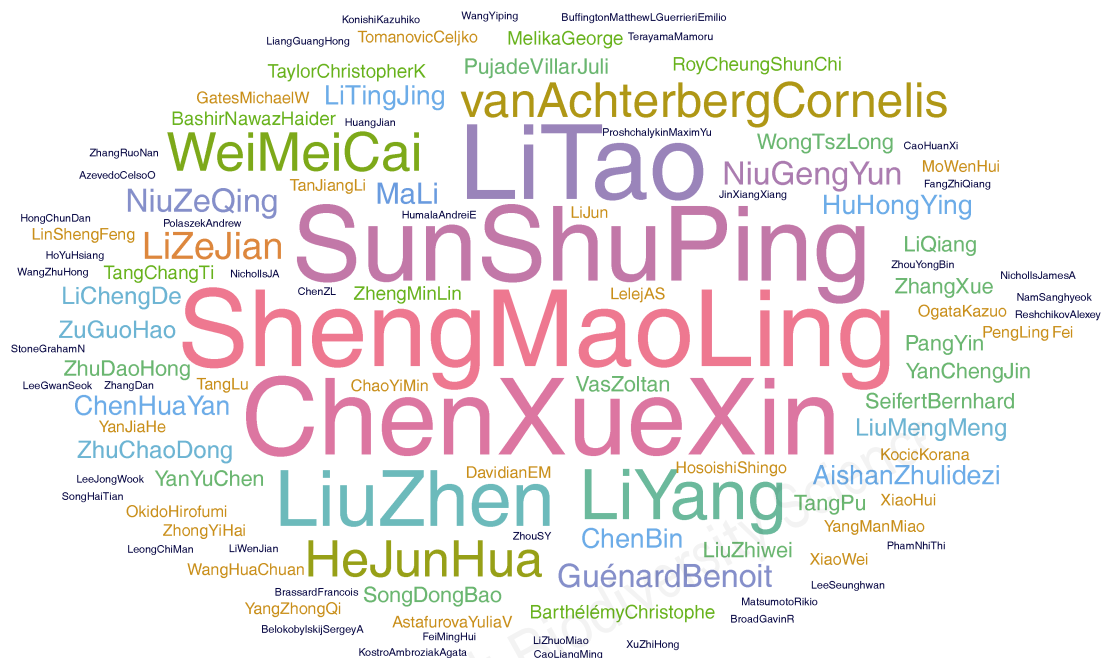


图2 基于2020年命名的中国膜翅目新种数量的命名人名词云(不含绝灭种)

Fig. 2 A word cloud for the name of authors based on the number of new species of Hymenoptera from China they described in 2020 (without extinct taxa)

表2 2020年发表5个及以上中国膜翅目新种的学者(不含绝灭种)**Table 2** Authors published 5 and more new species of Hymenoptera from China in 2020 (without extinct species)

命名人 Author	命名新种数量 No. of new species described	单位 Affiliation
盛茂领 Maoling Sheng	93	国家林业和草原局森林和草原病虫害防治总站 General Station of Forest and Grassland Pest Management, National Forestry and Grassland Administration
陈学新 Xuexin Chen	92	浙江大学 Zhejiang University
孙淑萍 Shuping Sun	90	国家林业和草原局森林和草原病虫害防治总站 General Station of Forest and Grassland Pest Management, National Forestry and Grassland Administration
李涛 Tao Li	88	国家林业和草原局森林和草原病虫害防治总站 General Station of Forest and Grassland Pest Management, National Forestry and Grassland Administration
刘珍 Zhen Liu	48	浙江大学 Zhejiang University
李杨 Yang Li	40	浙江大学 Zhejiang University
魏美才 Meicai Wei	23	江西师范大学 Jiangxi Normal University
何俊华 Junhua He	22	浙江大学 Zhejiang University
Cornelis van Achterberg	20	浙江大学、西北大学 Zhejiang University, Northwest University
李泽建 Zejian Li	11	华东药用植物园科研管理中心 Scientific Research and Management Center of East China Pharmaceutical Botanical Garden
牛耕耘 Gengyun Niu	9	江西师范大学 Jiangxi Normal University
Benoit Guénard	8	香港大学 Hong Kong University
牛泽清 Zeqing Niu	8	中国科学院动物研究所 Institute of Zoology, Chinese Academy of Sciences
马丽 Li Ma	7	云南农业大学 Yunnan Agricultural University
陈斌 Bin Chen	6	重庆师范大学 Chongqing Normal University
李廷景 Tingjing Li	6	重庆师范大学 Chongqing Normal University
陈华燕 Huayan Chen	6	中山大学 Sun Yat-sen University
朱丽得孜·艾山 Aishan Zhulidezi	6	新疆大学 Xinjiang University
胡红英 Hongying Hu	6	新疆大学 Xinjiang University
刘萌萌 Mengmeng Liu	5	丽水学院 Lishui University
李承德 Chengde Li	5	东北林业大学 Northeast Forestry University
祖国浩 Guohao Zu	5	天津农学院 Tianjin Agricultural University
朱朝东 Chaodong Zhu	5	中国科学院动物研究所 Institute of Zoology, Chinese Academy of Sciences

Journal of Systematic Palaeontology (1篇)共发表3篇论文, 涉及1个新属和10个新种。

收录现生类群的33个期刊共发表102篇论文: 中文论文7篇, 俄语论文1篇, 其余94篇均为英文论文; SCI论文73篇, 其他论文29篇; 涉及新种的论文共计86篇。尽管2020年涉及中国现生膜翅目昆虫新分类单元的期刊有33个, 但其中22个期刊均只收录了1篇论文, 其中的6篇论文未涉及新种发表、7篇论文仅发表了1个新种。在这33个期刊中, 分类学领域的著名期刊*Zootaxa*深受膜翅目学者欢迎, 无论是发表的论文数量还是新种数量, 均高居榜首, 共计26篇论文、114个新种(图3), 单篇平均发表新种超过4个。在这26篇*Zootaxa*论文中: 其中1篇发表新种数量高达48个(绒茧蜂属*Apanteles* Foerster), 其次为11个(茧蜂亚科Braconinae的6属), 均来自浙江大学陈

学新团队; 有10篇仅发表了1个新种; 国外学者独立发表有关中国膜翅目新分类单元的论文3篇。在发表论文数量上, 居于次席的为*ZooKeys*, 共计16篇论文、17个新种, 单篇平均发表新种1个左右(图3)。在发表新种数量上, 居于次席的为《昆虫分类学报》, 共计9篇论文、19个新种, 单篇平均发表新种2个左右。另外, 中文图书专著《寄生叶蜂的姬蜂科天敌昆虫》一书贡献了中国膜翅目2020年新分类单元143条, 包括13新记录属、81新种和48新记录种。

2.5 近五年中国膜翅目昆虫新种发表情况

2016–2020年, 每年平均发表约88篇有关中国膜翅目新种的期刊论文, 新种平均约193个(现生物种185个, 绝灭种8个)。2016–2019年, 每年发表的中国膜翅目新种数量以及期刊论文相对稳定, 新种数量略有下降, 但不显著(图4)。2016–2019年, 每年平

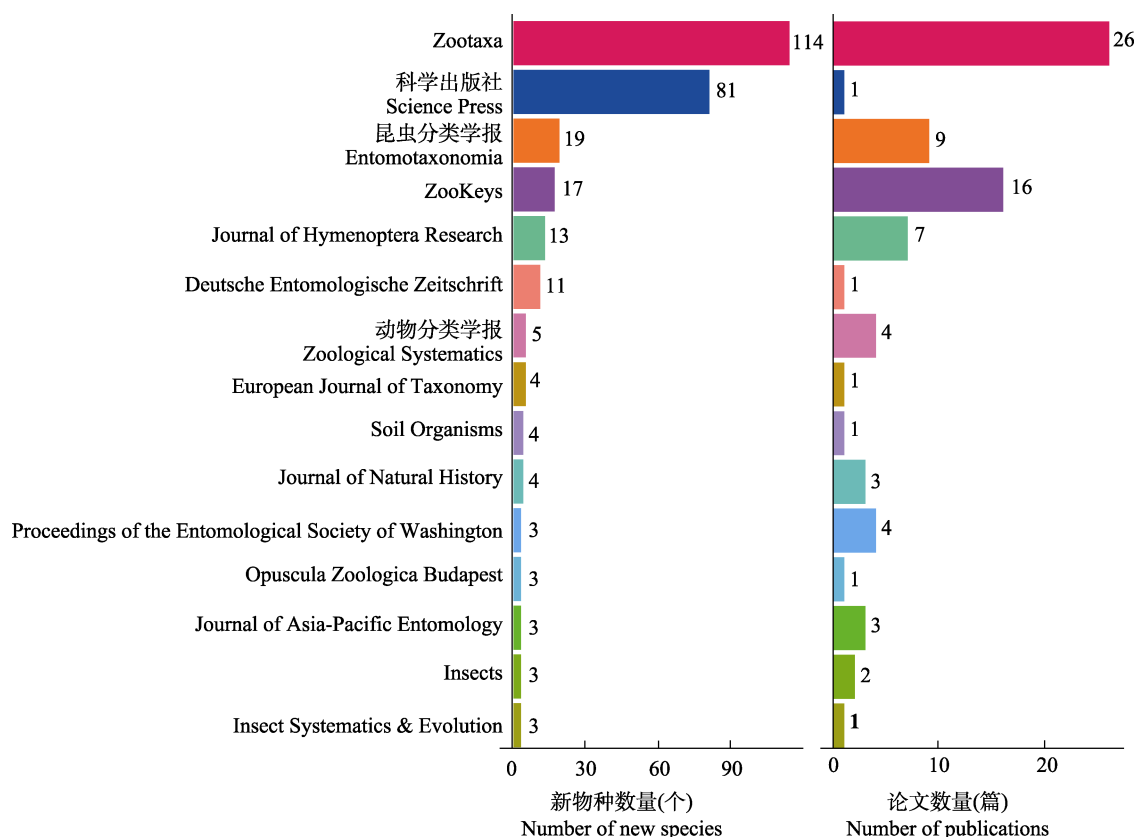


图3 2020年发表中国膜翅目新种数量超过2个的期刊/出版社发表的新种及论文数量(不含绝灭种)

Fig. 3 The number of new species of Hymenoptera from China and related references published by the journals/publishers that published more than 2 new species of Hymenoptera in China in 2020 (without extinct taxa)

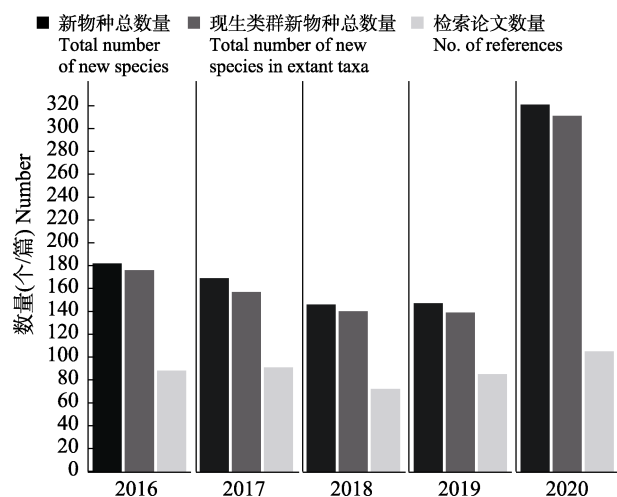


图4 2016年以来每年发表的中国膜翅目新种数量

Fig. 4 The number of new species of Hymenoptera from China described each year since 2016

均发表约84篇有关中国膜翅目新种的期刊论文和153个新种(现生种145个, 绝灭种8个)。相较于前4个年度, 2020年发表的中国膜翅目新种无论是在文献数量上还是新种数量上都有了显著提升(图4)。即

使不考虑《寄生叶蜂的姬蜂科天敌昆虫》发表的81个新种, 2020年发表的中国膜翅目新种也高达240个, 显著多于本次统计结果中前4个年度中最高的182个(2016年度)。

3 讨论

2020年发表的中国膜翅目现生类群新种(以下讨论均指中国膜翅目现生类群)数量多达311个, 为2016年以来发表数量最多的年份。尽管如此, 新种所属类群的结构不够均衡, 所属总科数量接近膜翅目总科数量的1/3 (为9/23), 但所属科数量约占膜翅目科总数的1/4 (为23/94) (现生膜翅目总科及科的总数量参考Aguiar et al, 2013)。姬蜂总科新种数量约占全年发表新物数量的2/3, 其次为小蜂总科和叶蜂总科(均为23个), 仅占姬蜂总科新种数量的1/10左右。即使不考虑《寄生叶蜂的姬蜂科天敌昆虫》中的81个新种, 小蜂总科和叶蜂总科发表的新种数量也不足姬蜂总科新种数量的1/5。这说明, 2020年姬蜂总科分类学研究在中国膜翅目研究中

独占鳌头。这种不均衡的结构同时体现在2020年中国膜翅目学者命名新种的数量上(图2)。




新种发表并不是也不能作为衡量分类学进展的唯一标准。因此, 仅依据新种发表数据是否能够说明中国姬蜂总科分类学进展强于其他膜翅目类群, 仍然需要更多数据支持。同时, 这也是需要每一位中国膜翅目分类学者思考的问题。但这从一定程度上说明, 绝大多数中国膜翅目类群分类学的发展仍然需要各个膜翅目研究团队以及有关部门向基础分类学投入更多的关注和支持。分类学人才梯队形成且稳定以及标本采集、收集和研究力度较大, 可能是浙江(浙江大学所在地)和辽宁(国家林业和草原局森林和草原病虫害防治总站所在地)发表新种数量居前的原因之一。云南、西藏和福建可能凭借其自然环境优势, 吸引膜翅目学者对这些省区的标本采集和收集产生一定的偏好性。

在期刊(略去图书专著)选择上, 著名分类学期刊*Zootaxa*仍是中国膜翅目分类学者发表分类学成果的主阵地, 且单篇平均发表新种数量超过另外一个著名的分类学期刊*ZooKeys*。究其原因, 可能是期刊发表政策存在差异, 如审稿周期和出版费用。*Zootaxa*的审稿周期相对较长, 但如果不选择开放获取, 无需支付高额出版费用; *ZooKeys*的审稿周期相对较短, 论文全部开放获取, 但需支付高昂的出版费用。此外, 根据作者投稿经验, *Zootaxa*并不鼓励单个新种的发表, 综合性的分类综述或者厘定工作更受欢迎, 而*ZooKeys*仍可接收单个新种的论文。在本文统计的26篇*Zootaxa*论文中, 可以划归到分类学综述或者厘定工作中的论文数量比例可能不足1/2。涉及现生膜翅目新分类单元的14个非SCI期刊中, 6个期刊出版地为中国, 共计19篇论文, 约占2020年全年论文数量(102篇)的18.6%; 其中发表中国膜翅目新种数量最多的期刊为《昆虫分类学报》, 但发表类群主要为叶蜂总科类群, 其次为《动物分类学报》。

需要指出的是, 本文有关2016年以来每年发表的中国膜翅目新种数量的趋势, 可能并不能体现近五年来的实际情况。尽管笔者尽可能确保2016–2019年的新种发表数量检索和统计的全面性, 但并不能保证如2020年度检索和统计结果般精确和准确, 仅提供一个概览。

致谢: 感谢《生物多样性》主编马克平研究员的邀请, 副主编黄晓磊教授等前期讨论和策划。浙江大学陈学新教授、国家林业和草原局森林和草原病虫害防治总站盛茂领研究员、中国林业科学院杨忠岐研究员、江西师范大学魏美才教授、首都师范大学任东教授、云南农业大学李强教授、重庆师范大学李廷景教授、新疆大学胡红英教授、华南农业大学刘经贤副研究员、中山大学陈华燕博士和天津农学院祖国浩博士等团队及时提供了相关信息。感谢相关类群专家为本文附录中的新物种提供了中文物种名。本文责任编辑和两位评审专家对本文提出了宝贵意见和建议, 在此一并致谢。

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附录 Supplementary Material

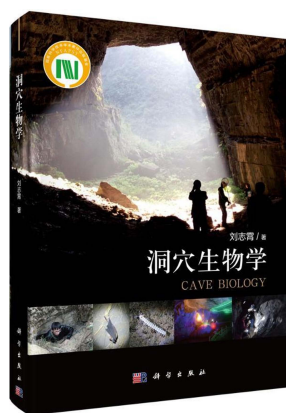
附录1 中国膜翅目2020年分类单元新增和变动目录

Appendix 1 Annual list of new taxa and taxonomic changes of Hymenoptera from China in 2020

<https://www.biodiversity-science.net/fileup/PDF/2021167-1.pdf>

•新书评介•

《洞穴生物学》评介



《洞穴生物学》(作者: 刘志霄教授)近期已由科学出版社出版, 这是我国第一部有关洞穴生物多样性及其保护的专著。该书内容丰富, 从洞穴学基础、洞穴生物学的基本概念和发展历程, 到洞穴生态系统的特点、洞穴生物多样性的构成, 以及洞穴考古、洞穴旅游和洞穴资源保护等方面均有较为系统而新颖的论述, 具有重要的学习和研究参考价值, 因此特向同行、学生和公众推荐。

在书中, 作者构建了洞穴生物学的基本框架和概念体系, 展现了洞穴生物多样性的基本面貌, 反映了国内外洞穴生物学的研究进展、发展趋势和前景。该书得到国家科学技术学术著作出版基金的立项资助, 并由我国著名的生物学家洪德元院士、魏辅文院士以及美国著名的洞穴生物学家Aldemaro Romero教授分别作序。

2021年是国际洞穴联合会(UIS)倡导的洞穴与喀斯特年(IYCK021)。10月, 联合国《生物多样性公约》第十五次缔约方大会(COP15)将在昆明召开。相信该书的出版, 将会有助于推动我国洞穴生物学, 特别是洞穴生物多样性保护事业的发展。

(华南农业大学 田明义)

附录

中国膜翅目分类单元新增和变动目录 2020 年

Annual List of New Taxa and Taxonomic Changes of Hymenoptera from China 2020

曹焕喜, 牛泽清, 唐璞, 李涛, 朱朝东
Cao Huan-Xi, Niu Ze-Qing, Tang Pu, Li Tao, Zhu Chao-Dong

2021

Apocrita 细腰亚目

Aculeata 针尾部

Apoidea 蜜蜂总科

Crabronidae 方头泥蜂科

Carinostigmus frontirugatus Bashir & Ma, 2020
皱额隆痣短柄泥蜂 [New Species]

Holotype ♀ (YNAU).

Distribution: CHINA (Guizhou, Yunnan).

Bashir, Ma & Li (2020) *ZooKeys* 987: 115–134.

Carinostigmus latidentatus Bashir & Ma, 2020 侧
齿隆痣短柄泥蜂 [New Species]

Holotype ♀ (YNAU).

Distribution: CHINA (Yunnan, Fujian, Hainan).

Bashir, Ma & Li (2020) *ZooKeys* 987: 115–134.

Carinostigmus vesulcatus Bashir & Ma, 2020 缺
沟隆痣短柄泥蜂 [New Species]

Holotype ♀ (YNAU).

Distribution: CHINA (Yunnan).

Bashir, Ma & Li (2020) *ZooKeys* 987: 115–134.

Polemistus clypeisinuatus Ma & Li, 2020 波唇狭
额短柄泥蜂 [New Species]

Holotype ♀ (YNAU).

Distribution: CHINA (Zhejiang).

Ma & Li (2020) *Zootaxa* 4852(4): 475–484.

Polemistus divaricatus Ma & Li, 2020 二叉狭额
短柄泥蜂 [New Species]

Holotype ♂ (YNAU).

Distribution: CHINA (Yunnan).

Ma & Li (2020) *Zootaxa* 4852(4): 475–484.

Polemistus gutianus Ma & Li, 2020 古田山狭额
短柄泥蜂 [New Species]

Holotype ♀ (YNAU).

Distribution: CHINA (Zhejiang).

Ma & Li (2020) *Zootaxa* 4852(4): 475–484.

Polemistus pediflavus Ma & Li, 2020 褐足狭额
短柄泥蜂 [New Species]

Holotype ♀ (YNAU).

Distribution: CHINA (Yunnan).

Ma & Li (2020) *Zootaxa* 4852(4): 475–484.

Belomicrus kaszabi Tsuneki, 1972 卡氏小刺泥蜂
[New Record]

Distribution: CHINA (Inner Mongolia);
Mongolia.

Li & Ma (2020) *Southwest China Journal of
Agricultural Sciences* 33(6): 1332–1336.

Belomicrus shatalkini Antropov, 1995 滑胸小刺
泥蜂 [New Record]

Distribution: CHINA (Inner Mongolia);
Turkmenistan.

Li & Ma (2020) *Southwest China Journal of
Agricultural Sciences* 33(6): 1332–1336.

Carinostigmus palawanensis (Tsuneki), 1976 巴
拉望隆痣短柄泥蜂 [New Record]

Distribution: CHINA (Yunnan); Philippines.

Bashir, Ma & Li (2020) *ZooKeys* 987: 115–134.

Halictidae 隧蜂科

Lasioglossum (Dialictus) submandibulare Niu,
2020 拟大颚淡脉隧蜂 [New Species]

Holotype ♀ (IZCAS).

Distribution: CHINA (Sichuan).

Niu, Zhang & Zhu (2020) *Zoological Systematics*
45(1): 50–58.

Nomia (*Gnathonomia*) *fusciventris* Zhang & Niu,
2020 棕腹彩带蜂 [New Species]

Holotype ♂ (IZCAS).

Distribution: CHINA (Fujian).

Zhang et al. (2020) *Zootaxa* 4768(1): 076–094.

Sphecodes holgeri Astafurova & Proshchalykin,
2020 霍氏红腹蜂 [New Species]

Holotype ♀ (IZCAS).

Distribution: CHINA (Yunnan).

Astafurova et al. (2020) *Journal of Hymenoptera Research* 79: 145–162.

Sphecodes tibeticus Astafurova & Niu, 2020 西藏
红腹蜂 [New Species]

Holotype ♂ (IZCAS).

Distribution: CHINA (Tibet).

Astafurova et al. (2020) *Journal of Hymenoptera Research* 79: 145–162.

Nomia aurata Bingham, 1897 金花彩带蜂 [New
Record]

Distribution: CHINA (Yunnan); South Asia.

Zhang et al. (2020) *Zootaxa* 4768(1): 076–094.

Nomia wahisi Pauly, 2009 瓦氏彩带蜂 [New
Record]

Distribution: CHINA (Hainan); Laos, Thailand.

Zhang et al. (2020) *Zootaxa* 4768(1): 076–094.

Megachilidae 切叶蜂科

Anthidium (*Anthidium*) *pseudomontanum* Niu &
Zhu, 2020 拟山黄斑蜂 [New Species]

Holotype ♀ (IZCAS).

Distribution: CHINA (Xinjiang).

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Anthidium (*Anthidium*) *pseudophilorum* Niu &
Zhu, 2020 拟红跗黄斑蜂 [New Species]

Holotype ♂ (IZCAS).

Distribution: CHINA (Xinjiang, Qinghai, Tibet).

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Anthidium (*Anthidium*) *tasitiense* Niu & Zhu,
2020 塔斯提黄斑蜂 [New Species]

Holotype ♂ (IZCAS).

Distribution: CHINA (Xinjiang).

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Anthidium (*Anthidium*) *xuezhongi* Niu & Zhu,
2020 学忠黄斑蜂 [New Species]

Holotype ♂ (IZCAS).

Distribution: CHINA (Xinjiang, Tibet).

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Anthidium (*Proanthidium*) *qingtaoi* Niu & Zhu,
2020 清涛黄斑蜂 [New Species]

Holotype ♂ (IZCAS).

Distribution: CHINA (Tibet).

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Megachile (*Callomegachile*) *parornata*
Chatthanabun, Warrit and Ascher, 2020 拟细点
切叶蜂 [Replaced Name]

Junior primary homonym: *Megachile gigas* Wu,
2005 大切叶蜂

Distribution: CHINA (Yunnan); Vietnam,
Thailand.

Chatthanabun et al. (2020) *ZooKeys* 997: 95–114.

Anthidium (*Anthidium*) *florentinum* (Fabricius,
1775) 花黄斑蜂

Synonym: *Anthidium* (*Proanthidium*)

helianthinum Wu, 2004 向日葵黄斑蜂 [New
Synonym]

Distribution: CHINA (Jiangsu, Inner Mongolia,
Xinjiang, Gansu, Sichuan); widely distributed
around the world.

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Anthidium (*Anthidium*) *kashmirens*

Mavromoustakis, 1937 克什米尔黄斑蜂

Synonym: *Anthidium* (*Anthidium*) *nigroventrale*
Wu, 1982 黑腹黄斑蜂 [New Synonym]

Distribution: CHINA (Tibet); India.

Niu et al. (2020) *Zootaxa* 4867(1): 001–067.

Psenidae 三室泥蜂科

Psenulus ephippius Taylor, Barth ́ány, Chi &
Gu ́nard, 2020 马鞍山三室泥蜂 [New Species]

Holotype ♀ (CAS).

Distribution: CHINA (Hong Kong).

Taylor et al. (2020) *Journal of Hymenoptera*
Research 79: 169–211.

Psenulus gibbus Taylor, Barth ́ány, Chi &
Gu ́nard, 2020 驼背三室泥蜂 [New Species]

Holotype ♀ (CAS).

Distribution: CHINA (Hong Kong).

Taylor et al. (2020) *Journal of Hymenoptera*
Research 79: 169–211.

Psenulus pallens Taylor, Barth ́ány, Chi &
Gu ́nard, 2020 淡色三室泥蜂 [New Species]

Holotype ♀ (CAS).

Distribution: CHINA (Hong Kong).

Taylor et al. (2020) *Journal of Hymenoptera*
Research 79: 169–211.

Sphecidae 泥蜂科

Palmodes mandarinus (F. Smith, 1856)

Synonym: *Sphex montanus* F. Morawitz, 1889 山
泥蜂 [New Synonym]

Distribution: CHINA (Inner Mongolia, Shanghai,
Shanxi); Russia, Tajikistan, Kazakhstan,
Mongolia.

Danilov & Byvaltsev (2020) *Zootaxa* 4803(3):
401–434.

Palmodes melanarius (Mocs ́ry, 1883) 黑掌泥蜂

Synonym: *Sphex pusillus* Gussakovskij, 1930 小
泥蜂 [New Synonym]

Distribution: CHINA (Xinjiang); widely
distributed around the world.

Danilov & Byvaltsev (2020) *Zootaxa* 4803(3):
401–434.

Palmodes occitanicus (Lepeletier de Saint
Fargeau et Audinet-Serville, 1828) 耙掌泥蜂

Synonym: *Sphex palmetorum* Roth, 1963 棕榈林
泥蜂 [New Synonym]

Distribution: CHINA (Inner Mongolia, Xinjiang,
Shanghai, Zhejiang); widely distributed.

Danilov & Byvaltsev (2020) *Zootaxa* 4803(3):
401–434.

Chrysidoidea 青蜂总科

Bethylidae 肿腿蜂科

Cephalonomia formosiensis Terayama & Ho,
2020 台湾头甲肿腿蜂 [New Species]

Holotype ♀ (TARI).

Host: probably the larvae of Sauter anobiids,
Falsogastrallus sauteri Pic 寄主可能为档案窃
蠹的幼虫.

Distribution: CHINA (Taiwan).

Ho et al. (2020) *Insects* 11(4): 223.

Foenobethylus syndesis Chen & Azevedo, 2020
结合刺股肿腿蜂 [New Species]

Holotype ♂ (SYSBM).

Host: Unknown.

Distribution: CHINA (Yunnan).

Chen & Azevedo (2020) *Journal of Asia-Pacific Entomology* 23(4): 1241–1247.

Dryinidae 螫蜂科

Gonatopus viet Olmi, 1986 越南双距螫蜂 [New Record]

Host: *Stirellus capitatus* (Distant, 1918).

Distribution: CHINA (Dong Island of South China Sea); Vietnam.

Chen et al. (2020) *ZooKeys* 944: 115–120.

Vespoidea 胡蜂总科

Formicidae 蚁科

Lasius chinensis Seifert, 2020 中华毛蚁 [New Species]

Holotype worker ant (SMNG).

Distribution: CHINA (Northeast of China, from east of Qinghai to Shandong).

Seifert (2020) *Soil Organisms* 92(1): 15–86.

Lasius kabaki Seifert, 2020 卡氏毛蚁 [New Species]

Holotype worker ant (SMNG).

Distribution: CHINA (Sichuan).

Seifert (2020) *Soil Organisms* 92(1): 15–86.

Lasius longipalpus Seifert, 2020 长角毛蚁 [New Species]

Holotype worker ant (SMNG).

Distribution: CHINA (Gansu, Qinghai, Shaanxi, Sichuan); Far East, Japan.

Seifert (2020) *Soil Organisms* 92(1): 15–86.

Lasius sichuense Seifert, 2020 四川毛蚁 [New Species]

Holotype worker ant (SMNG).

Distribution: CHINA (Shaanxi, Sichuan, Yunnan).

Seifert (2020) *Soil Organisms* 92(1): 15–86.

Myrmecina asiatica Okido, Ogata & Hosoishi, 2020 亚洲切叶蚁 [New Species]

Holotype worker ant (KUEC).

Distribution: CHINA (Yunnan); Thailand, Malaysia, Indonesia.

Okido, Ogata & Hosoishi (2020) *Bulletin of the Kyushu University Museum* (17): 1–108.

Myrmecina asthena Okido, Ogata & Hosoishi, 2020 弱切叶蚁 [New Species]

Holotype worker ant (KUEC).

Distribution: CHINA (Yunnan); Vietnam, Malaysia.

Okido, Ogata & Hosoishi (2020) *Bulletin of the Kyushu University Museum* (17): 1–108.

Ooceraea octoantenna Zhou & Chen, 2020 八节卵角蚁 [New Species]

Holotype worker ant (GXNU).

Distribution: CHINA (Guangxi).

Zhou, Chen & Chen (2020) *Sociobiology* 67(2): 139–143.

Polyrhachis confusa Wong & Guénard, 2020 困惑多刺蚁 [New Species]

Holotype worker ant (IBBL).

Distribution: CHINA (Hong Kong, Macau).

Wong & Guénard (2020) *Asian Myrmecology* 13:
e013001.

Polyrhachis fellowesi Wong & Guénard, 2020 费
氏多刺蚁 [New Species]

Holotype worker ant (IBBL).

Distribution: CHINA (Hong Kong, Guangdong,
Guangxi, Zhejiang).

Wong & Guénard (2020) *Asian Myrmecology* 13:
e013001.

Polyrhachis hunggeuk Wong & Guénard, 2020 红
腿多刺蚁 [New Species]

Holotype worker ant (IBBL).

Distribution: CHINA (Hong Kong).

Wong & Guénard (2020) *Asian Myrmecology* 13:
e013001.

Polyrhachis peetersi Wong & Guénard, 2020 皮
氏多刺蚁 [New Species]

Holotype worker ant (BSM).

Distribution: CHINA (Hong Kong).

Wong & Guénard (2020) *Asian Myrmecology* 13:
e013001.

Strumigenys subterranea Brassard, Leong &
Guénard, 2020 地层瘤颚蚁 [New Species]

Holotype worker ant (IBBL).

Distribution: CHINA (MaCao).

Brassard et al. (2020) *ZooKeys* 970: 63–116.

Mutillidae 蚁蜂科

Ephucilla hejunhuai Lelej, 2020 何俊华蚁蜂
[New Species]

Holotype ♀ (IBSS).

Distribution: CHINA (Guangdong).

Lelej (2020) *Far Eastern Entomologist* 421: 1–9.

Taiwanomyrme cheni Lelej, 2020 陈氏台湾蚁蜂
[New Species]

Holotype ♀ (OLML).

Distribution: CHINA (Yunnan).

Lelej (2020) *Far Eastern Entomologist* 410: 1–
10.

Mickelomyrme athalia (Pagden, 1934) [New
Record]

Distribution: CHINA (Guangdong, Fujian,
Yunnan); Malaysia, Thailand, Laos, Vietnam.

Okayasu (2020) *Zootaxa* 4723(1): 001–110.

Andreimyrmex substriolatus (Chen, 1957)

Synonym: *Smicromyrme tridentiens* Chen, 1957
[New Synonym]

Distribution: CHINA (Fujian, Taiwan); Japan,
Vietnam, Laos, Thailand, Malaysia, Indonesia.

Okayasu (2020) *Zootaxa* 4723(1): 001–110.

Nemka wotani (Zavattari, 1913)

Synonym: *Smicromyrme (Horaia) chihpenchia*
Tsuneki, 1993 [New Synonym]

Distribution: CHINA (Taiwan).

Okayasu (2020) *Zootaxa* 4723(1): 001–110.

Nemka limi (Chen, 1957)

Synonym: *Smicromyrme limi nanhai* Chen, 1957
[New Synonym]

Distribution: CHINA (Anhui, Shanghai, Zhejiang,
Jiangxi, Fujian, Guangdong); Vietnam.

Okayasu (2020) *Zootaxa* 4723(1): 001–110.

Neotrogaspidia pustulata (Smith, 1873)

Synonym: *Smicromyrme yakushimensis*
Yasumatsu, 1934 [New Synonym]

Distribution: CHINA (Taiwan).

Okayasu (2020) *Zootaxa* 4723(1): 001–110.

Vespidae 胡蜂科

Allodynerus reduncus Zhang, Chen & Li, 2020 翹

全盾蜾蠃 [New Species]

Holotype ♀ (CQNU).

Distribution: CHINA (Yunnan).

Zhang et al. (2020) *Zootaxa* 4750(4): 545–559.

Allodynerus bimaculus Zhang, Chen & Li, 2020

双斑全盾蜾蠃 [New Species]

Holotype ♀ (CQNU).

Distribution: CHINA (Tibet).

Zhang et al. (2020) *Zootaxa* 4750(4): 545–559.

Allodynerus asperipunctatus Zhang, Chen & Li,

2020 糙全盾蜾蠃 [New Species]

Holotype ♂ (CQNU).

Distribution: CHINA (Yunnan).

Zhang et al. (2020) *Zootaxa* 4750 (4): 545–559.

Ectopioglossa convexa Wang, Chen & Li, 2020

凸外舌蜾蠃 [New Species]

Holotype ♂ (CQNU).

Distribution: CHINA (Guangxi).

Wang, Chen & Li (2020) *Journal of Asia-Pacific*

Entomology 23(2): 253–259.

Epsilon similimanasicum Zhang, Chen & Li,

2020 似小式埃蜾蠃 [New Species]

Holotype ♀ (CQNU).

Distribution: CHINA (Zhejiang).

Zhang, Chen & Li (2020) *ZooKeys* 910: 131–142.

Ectopioglossa trimacula Wang, Chen & Li, 2020

三斑外舌蜾蠃 [New Species]

Holotype ♀ (CQNU).

Distribution: CHINA (Guangxi, Yunnan).

Wang, Chen & Li (2020) *Journal of Asia-Pacific*
Entomology 23(2): 253–259.

Allorhynchium quadrimaculatum Gusenleitner,

1997 斑异喙蜾蠃 [New Record]

Distribution: CHINA (Guangxi, Sichuan,
Guizhou, Yunnan); Vietnam, Laos.

Luo et al. (2020) *Journal of Hymenoptera*
Research 77: 119–137.

Allorhynchium menglianensis (Dong & Wang,

2017) 勐连异喙蜾蠃 [New Combination]

Halysituberosus menglianensis Dong & Wang,
2017

Distribution: CHINA (Yunnan).

Luo et al. (2020) *Journal of Hymenoptera*
Research 77: 119–137.

Allorhynchium van der Vecht, 1963 异喙蜾蠃属

Synonym: *Halysituberosus* Dong & Wang, 2017
[New Synonym]

Distribution: Oriental, Australian and Palearctic
regions.

Luo et al. (2020) *Journal of Hymenoptera*
Research 77: 119–137.

Allorhynchium lugubrinum (Cameron, 1900)

Synonym: *Halysituberosus yingjiangensis* Dong
& Wang, 2017 暗异喙蜾蠃 [New Synonym]

Distribution: CHINA (Yunnan); India.

Luo et al. (2020) *Journal of Hymenoptera*
Research 77: 119–137.

Parasitica 寄生部

Chalcidoidea 小蜂总科

Aphelinidae 蚜小蜂科

Coccophagus yunnana Wang, Huang & Polaszek,
2020 云南食蚜蚜小蜂 [New Species]

Holotype ♀ (FAFU).

Host: an unidentified coccid on *Kopsia fruticosa*
(Coccidae) 红花蕊木上的某种蚜虫.

Distribution: CHINA (Yunnan).

Wang et al. (2020) *Journal of Natural History*
54(29–30): 1879–1896.

Aphytis sankarani Rosen et DeBach, 1986 桑氏
黄蚜小蜂 [New Record]

Host: *Pseudaulacaspis cockerelli* (Cooley) 考氏
白盾蚧.

Distribution: CHINA (Fujian); India.

Si et al. (2020) *Journal of Environmental*
Entomology 42(5): 1216–1222.

Coccophagus fumadus

(Hayat, 2010) ?食蚜蚜小蜂 [New Record]

Host: Unknown.

Distribution: CHINA (Hainan); India.

Wang et al. (2020) *Journal of Natural History*
54(29–30): 1879–1896.

Encyrtidae 跳小蜂科

Cerapteroceroides guangxiensis Zu & Li, 2020 广
西纹翅跳小蜂 [New Species]

Holotype ♀ (TJAU).

Host: Unknown.

Distribution: CHINA (Tianjin).

Zu et al. (2020) *Journal of Northeast Forestry*
University 48(1): 118–119.

Cheiloneurus nankingensis Li & Xu, 2020 南京
刷盾跳小蜂 [New Species]

Holotype ♀ (NAU).

Host: *Aenasius arizonensis* Girault attacking
Phenacoccus solenopsis Tinsley.

Distribution: CHINA (Jiangsu).

Li et al. (2020) *ZooKeys* 974: 23–29.

Exoristobia sinica Zu & Li, 2020 中华蝇克跳小
蜂 [New Species]

Holotype ♀ (on slide) (TJAU).

Host: Unknown.

Distribution: CHINA (Tianjin).

Zu et al. (2020) *Journal of Forestry Research*.

Metaphycus roseus Zu, 2020 玫瑰阔柄跳小蜂
[New Species]

Holotype ♀ (on slide) (TJAU).

Host: *Antecercococcus roseus* (Green) (Hemiptera:
Cercococcidae) on *Boehmeria nivea* (L.) Gaudich.
(Urticales: Urticaceae).

Distribution: CHINA (Guangxi).

Zu et al. (2020) *Phytoparasitica* 48: 43–50.

Microterys perlucidus Zu, 2020 透翅花翅跳小蜂
[New Species]

Holotype ♀ (on slide) (TJAU).

Host: *Antecercococcus roseus* (Green) (Hemiptera:
Cercococcidae) on *Boehmeria nivea* (L.) Gaudich.
(Urticales: Urticaceae).

Distribution: CHINA (Guangxi).

Zu et al. (2020) *Phytoparasitica* 48: 43–50.

Rhopus hanni Zu & Li, 2020 韩氏裂脖跳小蜂
[New Species]

Holotype ♀ (NEFU).

Host: Unknown.

Distribution: CHINA (Tibet).

Zu, Yang & Li (2020) *Journal of Northeast Forestry University* 48(1): 115–117.

Rhopus sulphureus (Westwood, 1837) 硫磺裂脖跳小蜂 [New Record]

Host: Unknown.

Distribution: CHINA (Heilongjiang); Bulgaria, Danmark, Germany, Hungary, UK.

Zu, Yang & Li (2020) *Journal of Northeast Forestry University* 48(1): 115–117.

Eulophidae 姬小蜂科

Oomyzus flavotibialis Li & Li, 2020 黄胫粗脉姬小蜂 [New Species]

Holotype ♀ (on slide) (NEFU).

Host: Unknown.

Distribution: CHINA (Liaoning, Shandong).

Li & Li (2020) *ZooKeys* 950: 41–49.

Oomyzus spiraculus Song, Fei & Cao, 2020 气门脊粗脉姬小蜂 [New Species]

Holotype ♀ (IZCAS).

Host: *Coccinella septempunctata* L. 七星瓢虫.

Distribution: CHINA (Jiangsu).

Song et al. (2020) *ZooKeys* 953: 49–60.

Quadrastichus johnlasallei Gates, Chao, Lin & Yang, 2020 方强恩胯姬小蜂 [New Species]

Holotype ♀ (NCHUC).

Host: *Litchiomyia chinensis* Yang & Luo (Diptera: Cecidomyiidae) on *Litchi chinensis* (Sapindaceae) 荔枝上的中国荔枝瘿蚊.

Distribution: CHINA (Taiwan).

Gates et al. (2020) *Journal of Natural History* 54(9–12): 635–646.

Quadrastichus lasallei Gates, Chao, Lin & Yang, 2020 拉萨尔胯姬小蜂 [New Species]

Holotype ♀ (NCHUC).

Host: *Litchiomyia chinensis* Yang & Luo (Diptera: Cecidomyiidae) on *Litchi chinensis* (Sapindaceae) 荔枝上的中国荔枝瘿蚊.

Distribution: CHINA (Taiwan).

Gates et al. (2020) *Journal of Natural History* 54(9–12): 635–646.

Oomyzus gallerucae (Fonscolombe, 1832) 叶甲卵粗脉姬小蜂 [New Record]

Host: Unknown from China.

Distribution: CHINA (Liaoning); widely distributed around the world.

Li & Li (2020) *ZooKeys* 950: 41–49.

Eupelmidae 旋小蜂科

Anastatus (Anastatus) flavaeratus Peng & Tang, 2020 丽头平腹小蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Guangdong).

Peng et al. (2020) *Zootaxa* 4767(3): 351–401.

Anastatus (Anastatus) pariliquadrus Peng & Tang, 2020 方头平腹小蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Guangdong).

Peng et al. (2020) *Zootaxa* 4767(3): 351–401.

Megastigmidae 大痣小蜂科

Megastigmus zvimendeli Doğanlar & Hassan 2013

Synonym: *Megastigmus sichuanensis* Doğanlar & Zheng 2017 四川大痣小蜂 [New Synonym]

Distribution: CHINA (Sichuan); Australia, Israel, Turkey.

Le et al. (2020) *Bulletin of Entomological Research* 110(6): 709–724.

Mymaridae 缨小蜂科

Lymaenon funiculus Aishan & Hu, 2020 白索柄翅缨小蜂 [New Species]

Holotype ♀ (on slide) (ICXU).

Host: Unknown.

Distribution: CHINA (Yunnan, Taiwan).

Aishan et al. (2020) *Zootaxa* 4834(4): 573–595.

Lymaenon ledongus Aishan & Hu, 2020 乐东柄翅缨小蜂 [New Species]

Holotype ♀ (on slide) (ICXU).

Host: Unknown.

Distribution: CHINA (Hainan).

Aishan et al. (2020) *Zootaxa* 4834(4): 573–595.

Lymaenon longitus Aishan & Hu, 2020 长尾柄翅缨小蜂 [New Species]

Holotype ♀ (on slide) (ICXU).

Host: Unknown.

Distribution: CHINA (Hainan).

Aishan et al. (2020) *Zootaxa* 4834(4): 573–595.

Lymaenon naiquanlini Aishan & Hu, 2020 林氏柄翅缨小蜂 [New Species]

Holotype ♀ (on slide) (ICXU).

Host: Unknown.

Distribution: CHINA (Fujian, Taiwan, Tibet, Yunnan).

Aishan et al. (2020) *Zootaxa* 4834(4): 573–595.

Lymaenon radicululus Aishan & Hu, 2020 长角柄翅缨小蜂 [New Species]

Holotype ♀ (on slide) (ICXU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Aishan et al. (2020) *Zootaxa* 4834(4): 573–595.

Lymaenon zhui Aishan & Hu, 2020 朱氏柄翅缨小蜂 [New Species]

Holotype ♀ (on slide) (ICXU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Aishan et al. (2020) *Zootaxa* 4834(4): 573–595.

Ooetonus exsertus Jin & Li, 2020 突卵鞘杀卵缨小蜂 [New Species]

Holotype ♀ (on slide) (NEFU).

Host: Unknown.

Distribution: CHINA (Tibet).

Jin & Li (2020) *Oriental Insects* 54(3): 319–326.

Pteromalidae 金小蜂科

Neocyrtoptyx Xiao & Yan, 2020 拟赛阿金小蜂属 [New Genus]

Type species: *Neocyrtoptyx shanghensis* Xiao & Yan, 2020; by original designation.

Xiao & Yan (2020) *Zoological Systematics* 45(3): 231–235.

Neocyrtoptyx shanghensis Xiao & Yan, 2020 商河拟赛阿金小蜂 [New Species]

Host: the larvae of *Stenocephus fraxini* Wei 白蜡外齿茎蜂幼虫.

Distribution: CHINA (Shandong).

Xiao & Yan (2020) *Zoological Systematics* 45(3): 231–235. Holotype ♀ (IZCAS).

Neocyrtoptyx exilis Xiao & Yan, 2020 纤拟赛阿金小蜂 [New Species]

Host: the larvae of *Stenocephus fraxini* Wei 白蜡
外齿茎蜂幼虫.

Distribution: CHINA (Shandong).

Xiao & Yan (2020) *Zoological Systematics* 45(3):
231–235. Holotype ♀ (IZCAS).

Pteromalus sanjiangyuanicus Yang, 2020 三江源
草原毛虫金小蜂 [New Species]

Holotype ♀ (CAF).

Host: *Gynaephora qinghaiensis* (Zhou) 青海草原
毛虫.

Distribution: CHINA (Qinghai).

Yang et al. (2020) *Scientia Silvae Sinicae* 56(2):
99–105.

Trichogrammatidae 赤眼蜂科

Paracentrobia (*Brachistella*) *bicolor* (Girault,
1912) 双色邻赤眼蜂

Synonyms: *Japania andoi* Ishii, 1938 [New
Synonym]; *Paracentrobia* (*Brachistella*) *garuda*
Subba Rao, 1974 [New Synonym].

Distribution: CHINA (Taiwan); Japan.

Triapitsyn, Shih & Huang (2020) *Journal of*
Asia-Pacific Entomology 23(4): 970–980.

Pseudoligosita nephotetticum (Mani, 1939)

Synonym: *Oligosita tachikawai* Yashiro, 1979
[New Synonym]

Distribution: CHINA (Taiwan); Japan.

Triapitsyn, Shih & Huang (2020) *Journal of*
Asia-Pacific Entomology 23(4): 970–980.

Cynipoidea 瘿蜂总科

Cynipidae 瘿蜂科

Andricus forni Pujade-Villar & Nicholls, 2020 福
氏栎瘿蜂 [New Species]

Holotype ♀ (UB).

Host plant: *Quercus glandulifera* Blume 包橡.

Distribution: CHINA (Zhejiang).

Pujade-Villar et al. (2020) *Zootaxa* 4890(4): 554–
566.

Cerroneuroterus yukawamasudai Pujade-Villar
& Melika, 2020 汤川增田似凹瘿蜂 [New
Species]

Holotype ♀ (UB).

Host plant: *Quercus acutissima* Carruthers 麻栎,
Quercus variabilis Blume 栓皮栎.

Distribution: CHINA (Shandong).

Pujade-Villar et al. (2020) *Zootaxa* 4869(4): 515–
528.

Cycloneuroterus megaformosanus Tang &
Melika, 2020 台湾大青冈瘿蜂 [New Species]

Holotype ♀ (TNMNS).

Host plant: *Lithocarpus corneus* (Lour.) Rehd. 烟
斗柯.

Distribution: CHINA (Taiwan).

Tang et al. (2020) *Proceedings of the*
Entomological Society of Washington 122(1):
184–196.

Diplolepis abei Pujade-Villar & Wang, 2020 安
氏玫瑰瘿蜂 [New Species]

Holotype ♀ (UB).

Host plant: Chinese Kushui rose, a hybrid of *Rosa*
sertata Rolfe × *R. rugosa* Thunb. 中国苦水玫瑰.

Distribution: CHINA (Gansu).

Pujade-Villar et al. (2020) *ZooKeys* 904: 131–146.

Heocynips Fang, Nieves-Aldrey & Melika, 2020
东亚瘿蜂属 [New Genus]

Type species: *Heocynips furvoaurantius* Tang, Nicholls & Stone, 2020; by original designation and monotypy.

Fang et al. (2020) *Proceedings of the Entomological Society of Washington* 122(4): 787–804.

Heocynips furvoaurantius Tang, Nicholls & Stone, 2020 黑头黄腹东亚瘿蜂 [New Species]

Holotype ♀ (EBRRS).

Host plant: *Quercus fabri* Hance 白栎; *Quercus serrata* Thunb. 枹栎.

Distribution: CHINA (Sichuan).

Fang et al. (2020) *Proceedings of the Entomological Society of Washington* 122(4): 787–804.

Lithosaphonecrus arcoverticus Liu, Zhu & Pang, 2020 拱顶柯客瘿蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: *Lithocarpus glaber* (Thunb.) Nakai 石栎.

Distribution: CHINA (Hunan).

Yang et al. (2020) *Insect Systematics & Evolution* 51: 551–583.

Lithosaphonecrus decarinatus Liu, Zhu & Pang, 2020 光额柯客瘿蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: *Lithocarpus glaber* (Thunb.) Nakai 石栎.

Distribution: CHINA (Hunan).

Yang et al. (2020) *Insect Systematics & Evolution* 51: 551–583.

Lithosaphonecrus puigdemonti Pujade-Villar, 2020 蒲氏柯客瘿蜂 [New Species]

Holotype ♀ (UB).

Host plant: Unknown.

Distribution: CHINA (Fujian).

Pujade-Villar, Wang & Lobato-Vila (2020) *Entomotaxonomia* 42(1): 70–80.

Lithosaphonecrus edurus Fang, Melika & Tang, 2020 粗瘿柯客瘿蜂 [New Species]

Holotype ♀ (EBRRS).

Host plant: *Lithocarpus cleistocarpus* (Seem.) 峨眉包果柯.

Distribution: CHINA (Sichuan).

Fang et al. (2020) *Proceedings of the Entomological Society of Washington* 122(4): 805–820.

Periclistus orientalis Pang, Liu & Zhu, 2020 东方似脊瘿蜂 [New Species]

Holotype ♀ (CSCS).

Distribution: CHINA (Hunan).

Pang et al. (2020) *ZooKeys* 964: 109–126.

Saphonecrus emarginatus Liu, Zhu & Pang, 2020 刻腹缺缘客瘿蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: *Lithocarpus glaber* (Thunb.) Nakai 石栎.

Distribution: CHINA (Hunan).

Yang et al. (2020) *Insect Systematics & Evolution* 51: 551–583.

Figitidae 环腹瘿蜂科

Leptopilina lasallei Buffington & Guerrieri, 2020 拉萨尔环腹瘿蜂 [New Species]

Holotype ♀ (USNM).

Host: *Drosophila suzukii* (Matsumura) and *D. pulchrella* Sturtevant on *Myrica rubra* (Lour.) S. et Zucc. 杨梅上的铃木氏果蝇和艳丽果蝇.

Distribution: CHINA (Yunnan).

Buffington et al. (2020) *Journal of Natural History* 54(9–12): 565–583.

Ichneumonoidea 姬蜂总科

Braconidae 茧蜂科

Apanteles albumaculatus Liu & Chen, 2020 白斑绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles altus Liu & Chen, 2020 大刻绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Fujian, Guangxi, Sichuan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles ambulator Liu & Chen, 2020 突变绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Taiwan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles amotus Liu & Chen, 2020 强凹绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangxi).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles angustus Liu & Chen, 2020 窄区绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Fujian, Hunan, Jiangsu).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles annosus Liu & Chen, 2020 皱脸绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangdong).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles aphanofossa Liu & Chen, 2020 隐沟绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles aspersus Liu & Chen, 2020 稀刺绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Guizhou, Jilin).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles attenuator Liu & Chen, 2020 缢缩绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Liaoning).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles bialtus Liu & Chen, 2020 双高绒茧蜂

[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Taiwan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles brevitempus Liu & Chen, 2020 短颊绒

茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hunan, Fujian, Guangxi, Taiwan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles bulbus Liu & Chen, 2020 泡眼绒茧蜂

[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles cannabis Liu & Chen, 2020 麻绳绒茧

蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles carssus Liu & Chen, 2020 粗腿绒茧蜂

[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Anhui, Guangdong, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles crassus Liu & Chen, 2020 厚胸绒茧蜂

[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian, Guangdong, Guizhou).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles distributa Liu & Chen, 2020 瘤蛾绒茧

蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Shandong).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles expansus Liu & Chen, 2020 后扩绒茧

蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian, Guangdong, Hainan, Liaoning, Yunnan, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles flavibasalis Liu & Chen, 2020 黄基绒

茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangdong, Guangxi, Guizhou).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles fraxinus Liu & Chen, 2020 水曲柳绒

茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Heilongjiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles fundum Liu & Chen, 2020 中脊绒茧蜂
[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles fuscidentalis Liu & Chen, 2020 竹虫绒
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Sichuan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles jasmine Liu & Chen, 2020 茉莉绒茧蜂
[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles lateroglabris Liu & Chen, 2020 侧光
绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Heilongjiang, Jilin,
Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles limus Liu & Chen, 2020 横触绒茧蜂
[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Taiwan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles longicoxa Liu & Chen, 2020 长基绒茧
蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian, Hainan, Guangxi,
Taiwan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles longidiscus Liu & Chen, 2020 长胸绒
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Liaoning).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles magastigma Liu & Chen, 2020 大痣绒
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guizhou, Guangxi,
Yunnan, Henan, Hainan, Zhejiang, Shandong).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles muscosalis Liu & Chen, 2020 缀叶螟
绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles ocellisublimus Liu & Chen, 2020 高眼
绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian, Hubei).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles plureseta Liu & Chen, 2020 毛点绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles prominens Liu & Chen, 2020 突颊绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Guangdong, Hunan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles quadra Liu & Chen, 2020 方脸绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guizhou, Hainan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles radocoxa Liu & Chen, 2020 刮基绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangxi).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles salsala Liu & Chen, 2020 弄蝶绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Fujian).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles scrobiculatus Liu & Chen, 2020 网纹绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hainan, Guizhou, Zhejiang, Yunnan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles semicarinatus Liu & Chen, 2020 半脊绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Liaoning, Jilin, Heilongjiang, Shandong, Henan, Hubei, Anhui, Guangdong, Guizhou, Fujian, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles stigmaium Liu & Chen, 2020 小痣绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Jilin, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles tenuis Liu & Chen, 2020 条带绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan, Zhejiang, Hunan, Henan, Taiwan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles alticella Liu & Chen, 2020 高室绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hainan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles aphanoiugum Liu & Chen, 2020 隐脊
绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan, Zhejiang,
Guizhou).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles cavitergita Liu & Chen, 2020 凹背绒
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Xinjiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles impunctus Liu & Chen, 2020 无刻绒茧
蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Gansu).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles lineatella Liu & Chen, 2020 麦蛾绒茧
蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Xinjiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles longiala Liu & Chen, 2020 长翅绒茧
蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles palliditegula Liu & Chen, 2020 浅翅基
绒茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangdong).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles rectala Liu & Chen, 2020 直翅绒茧蜂
[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guizhou, Yunnan,
Zhejiang, Shaanxi).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles rhombos Liu & Chen, 2020 菱区绒茧
蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang, Yunnan).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles setosus Liu & Chen, 2020 毛背绒茧蜂
[New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangdong, Fujian,
Hainan, Sichuan, Zhejiang).

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Aspicolpus clypeconcavus Yan & Chen, 2020 凹
唇盾茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Yan et al. (2020) *Zootaxa* 4743(3): 391–401.

Aspicolpus frontirugatus Yan & Chen, 2020 皱额
盾茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Tibet).

Yan et al. (2020) *Zootaxa* 4743(3): 391–401.

Aspicolpus jilinensis Yan & Chen, 2020 吉林盾
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Jilin).

Yan et al. (2020) *Zootaxa* 4743(3): 391–401.

Aspicolpus striatus Yan & Chen, 2020 条纹盾茧
蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian).

Yan et al. (2020) *Zootaxa* 4743(3): 391–401.

Atanycolus carinatus Li, He & Chen, 2020 强脊
刻柄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Atanycolus longiquus Li, He & Chen, 2020 长颊
刻柄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Atanycolus maculipennis Li, He & Chen, 2020 斑
翅刻柄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Atanycolus setosus Li, He & Chen, 2020 密毛刻
柄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Bracon (Glabrobracon) indistinctus Li, He &
Chen, 2020 浅沟光茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Li, He & Chen (2020) *Deutsche Entomologische
Zeitschrift* 67: 209–252.

Bracon (Glabrobracon) leptotes Li, He & Chen,
2020 细管光茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian).

Li, He & Chen (2020) *Deutsche Entomologische
Zeitschrift* 67: 209–252.

Bracon (Glabrobracon) longistriatus Li, He &
Chen, 2020 纵条光茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Heilongjiang).

Li, He & Chen (2020) *Deutsche Entomologische
Zeitschrift* 67: 209–252.

Bracon (Glabrobracon) megaventris Li, He & Chen, 2020 大腹光茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Henan).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Lucobracon) brevicarinatus Li, He & Chen, 2020 短脊宽口茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Liaoning).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Lucobracon) coarctatus Li, He & Chen, 2020 扁胸宽口茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Jilin).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Lucobracon) curculiovorus Li, He & Chen, 2020 象甲宽口茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Inner Mongolia).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Lucobracon) flavitestaceus Li, He & Chen, 2020 黄褐宽口茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Jilin, Liaoning).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Lucobracon) quadratus Li, He & Chen, 2020 方斑宽口茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Liaoning).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Uncobracon) euryulcatus Li, He & Chen, 2020 宽沟顎钩茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangxi).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Bracon (Uncobracon) longwangshanensis Li, He & Chen, 2020 龙王山顎钩茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Li, He & Chen (2020) *Deutsche Entomologische Zeitschrift* 67: 209–252.

Campyloneurus brachyurus Li, van Achterberg & Chen, 2020 短尾弯肘茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hunan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus lasiofacialis Li, van Achterberg & Chen, 2020 毛面弯肘茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hunan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus longitergum Li, van Achterberg & Chen, 2020 长背深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus longitudinalis Li, van Achterberg & Chen, 2020 纵条念珠茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus micromacularis Li, van Achterberg & Chen, 2020 小斑深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus nigriventris Li, van Achterberg & Chen, 2020 黑腹弯肘茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus pachypus Li, van Achterberg & Chen, 2020 粗柄弯肘茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hebei).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus promiscuus Li, van Achterberg & Chen, 2020 混纹弯肘茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: *Semanotus bifasciatus* M. 双条杉天牛.

Distribution: CHINA (Guangdong).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus quadriceps Li, van Achterberg & Chen, 2020 方头弯肘茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus robusticella Li, van Achterberg & Chen, 2020 粗室深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hunan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus rugifacialis Li, van Achterberg & Chen, 2020 皱颜深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangxi).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus stigmosus Li, van Achterberg & Chen, 2020 多斑深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Guangdong, Fujian).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Campyloneurus tergipunctatus Li, van Achterberg & Chen, 2020 刻背深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Craspedolcus maculithorax Li, He & Chen, 2020 斑胸缘柄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Fujian).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Craspedolcus nigrabdominalis Li, He & Chen, 2020 黑腹缘柄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Tibet).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Deuterixys jilinensis Zheng & Song, 2020 吉林背腰茧蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Jilin).

Zheng & Song (2020) *Zootaxa* 4728(4): 489–497.

Deuterixys longitarsus Zheng & Song, 2020 长跗背腰茧蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Fujian).

Zheng & Song (2020) *Zootaxa* 4728(4): 489–497.

Deuterixys shennonggensis Zheng & Song, 2020 神龙架背腰茧蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Hubei).

Zheng & Song (2020) *Zootaxa* 4728(4): 489–497.

Ecphylus lini Belokobylskij, 2020 林氏异腹茧蜂 [New Species]

Holotype ♀ (TNMNS).

Host: *Scolytus japonicus* Chapuis 果树小蠹.

Distribution: CHINA (Taiwan).

Belokobylskij & Lin (2020) *Zoosystematica Rossica* 29(1): 23–32.

Ectemnoplax bimaculosus Li, He & Chen, 2020 双斑埃茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Glyptapanteles gigas Liang & Song, 2020 巨网苔蛾刻绒茧蜂 [New Species]

Holotype ♀ (FAFU).

Host: *Macrobrochis gigas* Walker 巨网苔蛾.

Distribution: CHINA (Fujian).

Lu et al. (2020) *ZooKeys* 913: 127–139.

Indabracon albogilvus Li, Tang & Chen, 2020 黄白印度茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, Tang & Chen (2020) *Journal of Hymenoptera Research* 76: 39–56.

Indabracon discolor Li, Tang & Chen, 2020 异色印度茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, Tang & Chen (2020) *Journal of Hymenoptera Research* 76: 39–56.

Indabracon nigricans Li, Tang & Chen, 2020 黑背印度茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, Tang & Chen (2020) *Journal of Hymenoptera Research* 76: 39–56.

Indabracon semicircularis Li, Tang & Chen, 2020 半圆印度茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, Tang & Chen (2020) *Journal of Hymenoptera Research* 76: 39–56.

Iphiaulax longinervis Li, van Achterberg & Chen, 2020 长脉深沟茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, van Achterbert & Chen (2020) *Zootaxa* 4884(1): 1–67.

Lipolexis peregrinus Tomanović & Kocić, 2020 疑源长径蚜茧蜂 [New Species]

Holotype ♀ (FBUB).

Host: *Myzus persicae* (Sulzer) 桃蚜, *Aphis* sp., *A. gossypii* Glover 棉蚜, *Toxoptera aurantii* (Boyer de Fonscolomber) 茶蚜, *Melanaphis sacchari* (Zehntner) 高粱蚜.

Distribution: CHINA (Beijing).

Kocić et al. (2020) *Insects* 11(10): 667.

Lipolexis takadai Tomanović & Kocić, 2020 高田氏长径蚜茧蜂 [New Species]

Holotype ♀ (CNC).

Host: *Aphis gossypii* Glover 棉蚜.

Distribution: CHINA (Shaanxi).

Kocić et al. (2020) *Insects* 11(10): 667.

Myiocephalus cracentis Li, 2020 修长突眼茧蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Ningxia, Hubei).

Li et al. (2020) *ZooKeys* 933: 95–105.

Neognamptodon Belokobylskij, 1999 新塬腹茧蜂属 [New Record Genus]

Distribution: CHINA (Yunnan); Madagascar, Papua New Guinea.

Tian et al. (2020) *Zootaxa* 4778(3): 471–508.

Neognamptodon laticauda Tan & van Achterberg, 2020 宽尾新塬腹茧蜂 [New Species]

Holotype ♀ (NWUX).

Host: Unknown.

Distribution: CHINA (Yunnan).

Tian et al. (2020) *Zootaxa* 4778(3): 471–508.

Parabobekoides van Achterberg & Tan, 2020 副波贝茧蜂亚属 [New Subgenus]

Type species: *Separatatus* (*Parabobekoides*) *yinshani* Zhang & van Achterberg, 2020; by original designation.

Host: Unknown.

Distribution: CHINA (Shaanxi).

Zhang et al. (2020) *ZooKeys* 926: 25–51.

Separatatus (*Parabobekoides*) *yinshani* Zhang & van Achterberg, 2020 银山裂腹反颚茧蜂 [New Species]

Holotype ♀ (NWUX).

Host: Unknown.

Distribution: CHINA (Shaanxi).

Zhang et al. (2020) *ZooKeys* 926: 25–51.

Praon genriki Davidian, 2020 亨氏蚜外茧蜂 [New Species]

Holotype ♀ (ZIN).

Host: Unknown.

Distribution: CHINA (Yunnan).

Davidian (2020) *Caucasian Entomological Bulletin* 16(2): 207–211.

Praon longistigmus Davidian, 2020 长痣蚜外茧蜂 [New Species]

Holotype ♂ (ZIN).

Distribution: CHINA (Sichuan).

Davidian (2020) *Caucasian Entomological Bulletin* 16(2): 207–211.

Pseudocyanopterus van Achterberg, Cao & Yang, 2020 伪中脊茧蜂属 [New Genus]

Type species: *Pseudocyanopterus raddeivorus* Cao, van Achterberg & Yang, 2020; by original designation and monotypy.

Distribution: CHINA (Liaoning).

Cao et al. (2020) *Zootaxa* 4881(1): 104–130.

Pseudocyanopterus raddeivorus Cao, van Achterberg & Yang, 2020 栗山天牛伪中脊茧蜂 [New Species]

Holotype ♀ (CAF).

Host: *Massicus raddei* (Blessig & Solsky, 1872) 栗山天牛.

Distribution: CHINA (Liaoning).

Cao et al. (2020) *Zootaxa* 4881(1): 104–130.

Pseudognaptodon Fischer, 1965 拟塬腹茧蜂属 [New Record Genus]

Distribution: the New World; CHINA (Shaanxi) and Vietnam in the Old World.

Tian et al. (2020) *Zootaxa* 4778(3): 471–508.

Pseudognaptodon sinensis Tan & van Achterberg, 2020 中华拟塬腹茧蜂 [New Species]

Holotype ♀ (NWUX).

Host: Unknown.

Distribution: CHINA (Shaanxi).

Tian et al. (2020) *Zootaxa* 4778(3): 471–508.

Rilipertus Haeselbarth, 1996 宽鞘缘茧蜂属 [New Record Genus]

Distribution: CHINA (Hubei).

Li, Zheng & Chen (2020) *Zootaxa* 4851(1): 198–200.

Rilipertus zhongnanshanus Li, 2020 钟氏宽鞘缘
茧蜂 [New Species]

Holotype ♀ (FAFU).

Host: Unknown.

Distribution: CHINA (Hubei).

Li, Zheng & Chen (2020) *Zootaxa* 4851(1): 198–200.

Shelfordia fulva Li, He & Chen, 2020 黄褐纹腹
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Shelfordia obscuripennis Li, He & Chen, 2020 暗
翅纹腹茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Hainan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Stenobracon (Stenobracon) longatus Li, He &
Chen, 2020 长室窄茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Vipio abnormis Li, He & Chen, 2020 缺区簇毛
茧蜂 [New Species]

Holotype ♀ (ZJU).

Host: Unknown.

Distribution: CHINA (Inner Mongolia).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Apanteles argiope Nixon, 1965 金蛛绒茧蜂
[New Record]

Distribution: CHINA (Fujian, Guangdong, Guangxi, Hainan, Yunnan, Zhejiang); Australia, Fiji, India, Indonesia, Malaysia, Philippines, Singapore, South Korea, Vanuatu.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles brunnistigma Abdinbekova, 1969 褐痣
绒茧蜂 [New Record]

Distribution: CHINA (Fujian, Zhejiang); Azerbaijan, Canary, Czechoslovakia, Finland, Hungary, Islands, Italy, Lithuania, Russia, Switzerland, Turkey, United Kingdom.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles cerberus Nixon, 1965 瑟伯罗斯绒茧
蜂 [New Record]

Distribution: CHINA (Beijing, Guangdong, Zhejiang); India.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles chloris Nixon, 1965 克洛丽丝绒茧蜂
[New Record]

Distribution: CHINA (Fujian, Guangdong, Guizhou, Zhejiang); Philippines, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles chloris Nixon, 1965 克洛丽丝绒茧蜂
Synonym: *Apanteles cornicula* Chen & Song,
2004 [New Synonym]

Distribution: CHINA (Fujian, Guangdong, Guizhou, Zhejiang); Philippines, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles cocotis Wilkinson, 1934 椰树绒茧蜂
[New Record]

Distribution: CHINA (Fujian, Guangdong, Guangxi, Guizhou, Taiwan, Zhejiang); Indonesia. Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles demades Nixon, 1965 德马德斯绒茧蜂 [New Record]

Distribution: CHINA (Hainan); Malaysia, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles medon Nixon, 1965 米登绒茧蜂 [New Record]

Distribution: CHINA (Chongqing, Fujian, Guangdong, Guizhou, Hainan, Henan, Hunan, Yunnan, Zhejiang); Malaysia, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles opacus (Ashmead, 1905) 棉大卷叶螟绒茧蜂

Synonyms: *Apanteles cavatiptera* Chen & Song, 2004 [New Synonym]; *Apanteles glacilipes* Song & Chen, 2004 [New Synonym]

Distribution: CHINA (Anhui, Chongqing, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Henan, Hubei, Hunan, Jiangsu, Liaoning, Shaanxi, Shanghai, Sichuan, Taiwan, Yunnan, Zhejiang); India, Japan, Malaysia, Philippines, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles psenes Nixon, 1965 浅跗绒茧蜂 [New Record]

Distribution: CHINA (Zhejiang); Malaysia, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles saravus Nixon, 1965 萨拉乌斯绒茧蜂 [New Record]

Distribution: CHINA (Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Yunnan, Zhejiang); Philippines, Vietnam.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles sartamus Nixon, 1965 安全绒茧蜂 [New Record]

Distribution: CHINA (Guangdong, Guangxi, Taiwan); Philippines.

Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Apanteles usipetes Nixon, 1965 乌斯佩特绒茧蜂 [New Record]

Distribution: CHINA (Fujian, Sichuan); Malaysia. Liu, He & Chen (2020) *Zootaxa* 4807(1): 1–205.

Campyloneurus kirbyi (Cameron, 1905) 科氏弯肘茧蜂 [New Record]

Distribution: CHINA (Yunnan); Sri Lanka.

Li, van Achterberg & Chen (2020) *Zootaxa* 4884(1): 1–67.

Elasmosoma (Elasmosoma) pergandei Ashmead, 1895 [New Record]

Distribution: CHINA (Heilongjiang); Mongolia, Tajikistan, Canada, U. S. A.

Li et al. (2020) *Zoological Systematics* 45(4): 281–289.

Neoneurus Haliday, 1838 [New Record Genus]

Distribution. Palaearctic and Nearctic Regions.

Li et al. (2020) *Zoological Systematics* 45(4): 281–289.

Neoneurus clypeatus (Foerster, 1863) [New Record]

Distribution: CHINA (Heilongjiang); Mongolia, Kazakhstan, Korea, Europe.

Li et al. (2020) *Zoological Systematics* 45(4): 281–289.

Shelfordia longicaudata van Achterberg, 1993 长尾纹腹茧蜂 [New Record]

Distribution: CHINA (Yunnan).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Vipio mongolicus Telenga, 1936 蒙古簇毛茧蜂 [New Record]

Distribution: CHINA (Hebei, Heilongjiang, Nei Menggu, Ningxia).

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Elasmosoma (*Sinoneoneurus*) *obscuripennis* (He, Chen & van Achterberg, 1997) [New Combination]

Sinoneoneurus obscuripennis He, Chen & van Achterberg, 1997

Distribution: CHINA (East Palaearctic Region).

Li et al. (2020) *Zoological Systematics* 45(4): 281–289.

Elasmosoma (*Sinoneoneurus*) *pallidipennis* (He, Chen & van Achterberg, 1997) [New Combination]

Sinoneoneurus pallidipennis He, Chen & van Achterberg, 1997

Distribution: CHINA (East Palaearctic Region).

Li et al. (2020) *Zoological Systematics* 45(4): 281–289.

Paroligoneurus cosmopterygivorius (He, 2000) 竹尖蛾稀脉茧蜂 [New Combination]

Oligoneurus cosmopterygivorius He, 2000 竹尖蛾寡脉茧蜂

Distribution: CHINA (Zhejiang).

Ranjith et al. (2020) *Zootaxa* 4786 (3): 396–408.

Paroligoneurus crassicornis (He, 2000) 粗角稀脉茧蜂 [New Combination]

Oligoneurus crassicornis He, 2000 粗角寡脉茧蜂

Distribution: CHINA (Zhejiang).

Ranjith et al. (2020) *Zootaxa* 4786 (3): 396–408.

Paroligoneurus flavifacialis (He, 2000) 黄脸稀脉茧蜂 [New Combination]

Oligoneurus flavifacialis He, 2000 黄脸寡脉茧蜂

Distribution: CHINA (Zhejiang).

Ranjith et al. (2020) *Zootaxa* 4786 (3): 396–408.

Paroligoneurus sinensis (He, 2000) 中华稀脉茧蜂 [New Combination]

Oligoneurus sinensis He, 2000 中华寡脉茧蜂

Distribution: CHINA (Zhejiang).

Ranjith et al. (2020) *Zootaxa* 4786 (3): 396–408.

Paroligoneurus songyangensis (He, 2000) 松阳稀脉茧蜂 [New Combination]

Oligoneurus songyangensis He, 2000 松阳寡脉茧蜂

Distribution: CHINA (Zhejiang).

Ranjith et al. (2020) *Zootaxa* 4786 (3): 396–408.

Elasmosoma Ruthe, 1858

Synonym: *Sinoneoneurus* He, Chen & van Achterberg, 1997 [New Synonym]

Distribution: Palaearctic, Nearctic and Oriental Regions.

Li et al. (2020) *Zoological Systematics* 45(4): 281–289.

Ectemnoplax peruliventris Enderlein, 1920 白腹埃茧蜂

Synonym: *Ectemnoplax xizanginensis* Wang, Chen & He, 2006 [New Synonym]

Distribution: CHINA (Hainan, Taiwan, Xizang); Japan.

Li, He & Chen (2020) *Zootaxa* 4818(1): 1–74.

Ichneumonidae 姬蜂科

Agrothereutes aprocerius Sheng, Li & Sun, 2020 叶蜂田猎姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Aproceros maculatus* Wei 斑背近脉三节叶蜂.

Distribution: CHINA (Hebei).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Alexeter albimaculatus Sheng, Sun & Li, 2020 白斑亚力姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Alexeter zangicus Sheng, Sun & Li, 2020 藏亚力姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Anoncus Townes, 1970 无凹姬蜂属 [New Record Genus]

Distribution: CHINA (Shandong).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Anoncus maculatus Sheng, Sun & Li, 2020 斑无凹姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shandong).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Apophysius latus Pham, Matsumoto, Konishi, Sheng & Broad, 2020 纵带多棘姬蜂 [New Species]

Holotype ♀ (IEBR).

Distribution: CHINA (Guangxi, Jiangxi, Yunnan). Pham et al. (2020) *Zootaxa* 4802(2): 301–316.

Azelus Förster, 1869 粮姬蜂属 [New Record Genus]

Distribution: CHINA (Shaanxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Azelus ankangicus Sheng, Sun & Li, 2020 安康
粮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shaanxi).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Bathythrix rufiscuta Sheng, Li & Sun, 2020 红盾
泥甲姬蜂 [New Species]

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Barytarbes motuoicus Sheng, Sun & Li, 2020 墨
脱霸姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Caenocryptus weiningicus Sheng, Li & Sun, 2020
威宁锥唇姬蜂 [New Species]

Host: *Neodiprion huizeensis* Xiao & Zhou 会泽新
松叶蜂.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Campodorus albilineatus Sheng, Sun & Li, 2020
白纹堪姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Guangxi).

Sun et al. (2020) **European Journal of
Taxonomy** (658).

Campodorus punctatus Sheng, Sun & Li, 2020 点
堪姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sun et al. (2020) **European Journal of
Taxonomy** (658).

Campodorus rasilis Sheng, Sun & Li, 2020 光堪
姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sun et al. (2020) **European Journal of
Taxonomy** (658).

Campodorus shandongicus Sheng, Sun & Li,
2020 山东堪姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shandong).

Sun et al. (2020) **European Journal of
Taxonomy** (658).

Campodorus truncatus Sheng, Sun & Li, 2020 截
堪姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sun et al. (2020) *European Journal of Taxonomy* (658).

Campoletis deserticola Sheng & Zhou, 2020 沙齿唇姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing, Liaoning).

Wei et al. (2020) *ZooKeys* 1004: 99–108.

Casitaria coloratilis Vas, 2020 暗足凹眼姬蜂 [New Species]

Holotype ♀ (MZLU).

Host: Unknown.

Distribution: CHINA (Taiwan).

Vas (2020) *Opuscula Zoologica Budapest* 51(2): 133–152.

Casitaria russea Vas, 2020 红腹凹眼姬蜂 [New Species]

Holotype ♀ (MZLU).

Host: Unknown.

Distribution: CHINA (Taiwan).

Vas (2020) *Opuscula Zoologica Budapest* 51(2): 133–152.

Casitaria vesca Vas, 2020 纤细凹眼姬蜂 [New Species]

Holotype ♀ (MZLU).

Host: Unknown.

Distribution: CHINA (Taiwan).

Vas (2020) *Opuscula Zoologica Budapest* 51(2): 133–152.

Charops aeruginosus Vas, 2020 铜色悬茧姬蜂 [New Species]

Holotype ♀ (HNHM).

Host: Unknown.

Distribution: CHINA (Taiwan).

Vas (2020) *Acta Zoologica Academiae Scientiarum Hungaricae* 66(3): 247–267.

Diadegma neodiprionis Sheng, Li & Sun, 2020 叶蜂弯尾姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Neodiprion huizeensis* Xiao & Zhou 会泽新松叶蜂.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cosmoconus chuanicus Sheng, Sun & Li, 2020 川角姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Sichuan).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cosmoconus truncatus Sheng, Sun & Li, 2020 截角姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing, Sichuan).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cosmoconus zongi Sheng, Sun & Li, 2020 宗角姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cycasis Townes, 1965 迷姬蜂属 [New Record Genus]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cycasis jilinica Sheng, Sun & Li, 2020 吉林迷姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Distathma Townes, 1970 墨线姬蜂属 [New Record Genus]

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Distathma ningxiaica Sheng, Li & Sun, 2020 宁墨线姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Endasys pristiphorae Sheng, 2020 叶蜂恩姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Stauronematus compresicornis* (Fabricius) 杨直角叶蜂, *Pristiphora xibei* Wei & Xia 西北槲缘叶蜂, *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Shandong, Shaanxi, Ningxia, Gansu).

Duan et al. (2020) **Zootaxa** 4743(1): 111–118. Holotype ♀ (GSFGPM).

Endasys proteuclastae Sheng, Sun & Li, 2020 螟恩姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Proteuclasta stotzeneri* (Caradja) 旱柳原叶螟.

Distribution: CHINA (Ningxia, Shandong).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Enytus Cameron, 1905 尚姬蜂属 [New Record Genus]

Distribution: CHINA (Jiangxi, Jilin); Mongolia, Russia, Europe, South Africa, Sri Lanka.

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Enytus ganicus Sheng, Sun & Li, 2020 赣尚姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Eridolius beijingicus Sheng, Sun & Li, 2020 京鼓姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euryproctus wugongensis Sheng, Sun & Li, 2020 武功阔肛姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euryproctus zongi Sheng, Sun & Li, 2020 宗氏阔肛姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Exyston lineatus Sheng, Li & Sun, 2020 纹易刻姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Neodiprion huizeensis* Xiao & Zhou 会泽新松叶蜂.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Exyston xizangicus Sheng, Li & Sun, 2020 西藏易刻姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Gelis weiningicus Sheng, Li & Sun, 2020 威宁沟姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Neodiprion huizeensis* Xiao & Zhou 会泽新松叶蜂.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Glyphicnemis qinica Sheng, Li & Sun, 2020 秦离距姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shaanxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Goryphus pristiphorae Sheng, Li & Sun, 2020 叶蜂驼姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Gansu).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Goryphus weiningicus Sheng, Li & Sun, 2020 威宁驼姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Neodiprion huizeensis* Xiao & Zhou 会泽新松叶蜂.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Homaspis sichuanica Sheng, Sun & Li, 2020 川拟姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Sichuan).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Kristotomus brevis Sheng, Sun & Li, 2020 短克里姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Lagarotis Förster, 1869 拉加姬蜂属 [New Record Genus]

Distribution: CHINA (Beijing, Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Lagarotis beijingensis Sheng, Sun & Li, 2020 京拉加姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Lagarotis ganica Sheng, Sun & Li, 2020 赣拉加姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Lamachus dilatatus Sheng, Li & Sun, 2020 阔侵姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shandong).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Mastrus luicus Sheng, Sun & Li, 2020 鲁搜姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shandong).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Mesoleptidea maculata Sheng, Sun & Li, 2020 斑长颚姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shaanxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Microstenus rufithorax Sheng, Li & Sun, 2020 褐胸纵沟姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Guangxi).

Li, Sun & Sheng (2020) **Zootaxa** 4838: 594–600.

Nemeritis Holmgren, 1860 呐姬蜂属 [New Record Genus]

Distribution: CHINA (Guizhou, Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Nemeritis niger Sheng, Li & Sun, 2020 黑呐姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Nemeritis pilosa Sheng, Li & Sun, 2020 毛呐姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Neodiprion* sp. 新松叶蜂.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Olesicampe albibasalis Sheng, Li & Sun, 2020 白基除蠋姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Gilpinia tabulaeformis* Xiao 油松吉松叶蜂.

Distribution: CHINA (Gansu).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Olesicampe jingyuanensis Sheng, Li & Sun, 2020 靖远除蠋姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Diprion jingyuanensis* Xiao & Zhang 靖远松叶蜂.

Distribution: CHINA (Gansu).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Olesicampe melana Sheng, Li & Sun, 2020 黑除蠋姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Heilongjiang).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Olesicampe populnea Sheng, Li & Sun, 2020 杨除蠋姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora beijingensis* Zhou & Zhang 北京杨鏹叶蜂.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Orthocentrus caudalis Humala & Lee, 2020 长尾拱脸姬蜂 [New Species]

Holotype ♀ (DNUE).

Host: Unknown.

Distribution: CHINA (Jilin); South Korea.

Humala, Lee & Choi (2020) *Journal of Hymenoptera Research* 75: 15–65.

Phobetres convavus Sheng, Sun & Li, 2020 凹浮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Phobetres ruficoxalis Sheng, Sun & Li, 2020 红基浮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Phygadeuon yanjiensis Sheng, Li & Sun, 2020 延吉粗角姬蜂 [New Species]

Holotype ♂ (GSFGPM).

Host: *Cleptes semiauratus* (L.) 暗尖胸青蜂.

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Phytodietus (Phytodietus) xui Kostro-Ambroziak & Reshchikov, 2020 许氏短梳姬蜂 [New Species]

Holotype ♀ (KIZ).

Host: Unknown.

Distribution: CHINA (Yunnan).

Kostro-Ambroziak, Zhou & Reshchikov (2020) **Zootaxa** 4877(2): 391–395.

Pleolophus rugulosus Sheng, Sun & Li, 2020 皱瘤角姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂、*Neodiprion fengningensis* Xiao & Zhou 丰宁新松叶蜂.

Distribution: CHINA (Shanxi, Gansu).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Protarchus Förster, 1868 前姬蜂属 [New Record Genus]

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Protarchus maculatus Sheng, Sun & Li, 2020 斑前姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Perilissus incarinatus Sheng, Sun & Li, 2020 缺脊波姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Lethades wugongensis Sheng, Sun & Li, 2020 武功失姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhinotorus nigrus Sheng, Li & Sun, 2020 黑犀姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Jilin).

Li, Sun & Sheng (2020) *Journal of Hymenoptera Research* 77: 203–211.

Rhorus bimaculatus Sheng, Sun & Li, 2020 双斑壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus carinatus Sheng, Sun & Li, 2020 脊壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus concavus Sheng, Sun & Li, 2020 端凹壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus denticlypealis Sheng, Sun & Li, 2020 齿唇壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus facialis Sheng, Sun & Li, 2020 颜壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus flavofacialis Sheng, Sun & Li, 2020 黄颜壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pristiphora erichsonii* (Hartig) 落叶松叶蜂.

Distribution: CHINA (Ningxia, Gansu).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus flavus Sheng, Sun & Li, 2020 黄壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus huinanicus Sheng, Sun & Li, 2020 辉南
壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jilin, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus liaoensis Sheng, Sun & Li, 2020 辽壮姬
蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus lishuicus Sheng, Sun & Li, 2020 丽水壮
姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Zhejiang).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus mandibularis Sheng, Sun & Li, 2020 颚
壮姬蜂 [New Species]

Holotype ♂ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus melanus Sheng, Sun & Li, 2020 黑 壮
姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus nigriantennatus Sheng, Sun & Li, 2020 黑
角壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing, Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus nigriclypealis Sheng, Sun & Li, 2020 黑
唇壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids
parasitizing sawflies in China (Hymenoptera,
Ichneumonidae). **Science Press**, Beijing. (in
Chinese with English abstract)

Rhorus nigripedalis Sheng, Sun & Li, 2020 黑足
壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet, Sichuan).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus petiolatus Sheng, Sun & Li, 2020 柄壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus recavus Sheng, Sun & Li, 2020 凹唇壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus urceolatus Sheng, Sun & Li, 2020 瓶壮姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scambus qinghaiicus Sheng, Sun & Li, 2020 青海曲姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: *Pontania* sp. 瘿叶蜂.

Distribution: CHINA (Qinghai).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates argeae Sheng, Sun & Li, 2020 叶蜂齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Gansu, Heilongjiang, Jilin, Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates fulvus Sheng, Sun & Li, 2020 黄齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates maculatus Sheng, Sun & Li, 2020 斑齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates oppositus Sheng, Sun & Li, 2020 对脉齿胫姬蜂 [New Species]

Holotype ♂ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet, Sichuan).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates parallelis Sheng, Sun & Li, 2020 平齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi, Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates rufiabdominalis Sheng, Sun & Li, 2020 褐腹齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Hebei).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates shinicus Sheng, Sun & Li, 2020 亮齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates tergitalis Sheng, Sun & Li, 2020 节齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Fujian, Shaanxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates trapezius Sheng, Sun & Li, 2020 梯齿胫姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing, Sichuan, Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Smicroplectrus Thomson, 1883 联姬蜂属 [New Record Genus]

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Smicroplectrus salix Sheng, Li & Sun, 2020 柳联姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Sympherta benxica Sheng, Sun & Li, 2020 本溪利姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Sympherta linzhiica Sheng, Sun & Li, 2020 林芝利姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Sympherta motuoensis Sheng, Sun & Li, 2020 墨脱利姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Sympherta polycolor Sheng, Sun & Li, 2020 多利姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Shaanxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Syntactus niger Sheng, Sun & Li, 2020 全黑合姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Syntacuts rugosus Sheng, Sun & Li, 2020 皱合姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Strongylopsis propodealis Sheng & Sun, 2020 并胸实姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sun et al. (2020) *Journal of Hymenoptera Research* 79: 1–13.

Strongylopsis punctata Sheng & Sun, 2020 刻点实姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Beijing).

Sun et al. (2020) *Journal of Hymenoptera Research* 79: 1–13.

Xenoschesis (Polycinetis) melana Sheng, Sun & Li, 2020 黑跃姬蜂 [New Species]

Holotype ♀ (GSFGPM).

Host: Unknown.

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Absyrtus Holmgren, 1859 折脉姬蜂属 [New Record Genus]

Distribution: CHINA (Ningxia, Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Absyrtus vicinator (Thunberg, 1822) 邻折脉姬蜂 [New Record]

Distribution: CHINA (Ningxia, Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Acrotomus Holmgren, 1857 平唇姬蜂属 [New Record Genus]

Distribution: CHINA (Liaoning, Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Acrotomus albidulus Kasparya, 1986 白平唇姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Acrotomus lucidulus (Gravenhorst, 1829) 卢平唇姬蜂 [New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Acrotomus succinctus (Gravenhorst, 1829) 速平唇姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Alexeter fallax (Holmgren, 1857) 发亚力姬蜂 [New Record]

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Alexeter nebulator (Thunberg, 1822) 内亚力姬蜂
[New Record]

Distribution: CHINA (Jilin, Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Alexeter niger (Gravenhorst, 1829) 黑亚力姬蜂
[New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Campodorus ciliatus (Holmgren, 1857) 细堪姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Campodorus dauricus Kasparyan, 2005 环堪姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cosmoconus caudator Kasparyan, 1971 尾角姬蜂 [New Record]

Distribution: CHINA (Beijing, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cosmoconus dlabolai Sedivy, 1971 德角姬蜂
[New Record]

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Cteniscus maculiventris boreoalpinus Kerrich, 1952 上缺距姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Ctenochira infesta (Holmgren, 1857) 因阔鞘姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Delomerista indica Gupta, 1982 印度德姬蜂
[New Record]

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Delomerista mandibularis (Gravenhorst, 1829) 颞德姬蜂 [New Record]

Distribution: CHINA (Jilin, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Enytus apostatus (Gravenhorst, 1829) 阿尚姬蜂
[New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Erromenus alpinator Aubert, 1969 山峨姬蜂
[New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euceros brevinervis Barron, 1978 短脉优姬蜂
[New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euceros clypealis Barron, 1978 唇优姬蜂 [New Record]

Distribution: CHINA (Tibet).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euceros rufocincta (Ashmead, 1906) 赤优姬蜂
[New Record]

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euceros schizophrenus Kasparya, 1984 异优姬蜂
[New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euryproctus Holmgren, 1857 阔肛姬蜂属 [New Record Genus]

Distribution: CHINA (Beijing, Liaoning, Jilin, Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euryproctus annulatus (Gravenhorst, 1829) 环阔肛姬蜂 [New Record]

Distribution: CHINA (Beijing, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Euryproctus foveolatus Uchida, 1955 凹阔肛姬蜂 [New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Exenterus abruptorius (Thunberg, 1822) 锯角姬蜂外姬蜂 [New Record]

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Exyston sibiricus (Kerrich, 1952) 西伯利亚易刻姬蜂 [New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Homaspis rufina (Gravenhorst, 1829) 褐拟姬蜂 [New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Mesochorus niger Kusigemati, 1967 黑菱室姬蜂 [New Record]

Distribution: CHINA (Shanxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Mesoleius aulicus (Gravenhorst, 1829) 深沟基凹姬蜂 [New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Mesoleius faciator Kasparyan, 2001 颜基凹姬蜂 [New Record]

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Orthopelmatinae Schmiedeknecht, 1910 显唇姬蜂亚科 [New Record Subfamily]

Distribution: CHINA (Shandong); Palaearctic and Nearctic regions.

Sun et al. (2020) **Forest Pest and Disease** 39(4): 1–5.

Orthopelma Taschenberg, 1865 显唇姬蜂属 [New Record Genus]

Distribution: CHINA (Shandong); Palaearctic and Nearctic regions.

Sun et al. (2020) **Forest Pest and Disease** 39(4): 1–5.

Orthopelma brevicorne Morley, 1907 短角显唇姬蜂 [New Record]

Distribution: CHINA (Shandong).

Sun et al. (2020) **Forest Pest and Disease** 39(4): 1–5.

Otoblastus maculator Kasparyan, 1999 斑耳柄姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Perilissus athaliae Uchida, 1936 枯波姬蜂 [New Record]

Distribution: CHINA (Guizhou).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Phobetres nigriceps (Gravenhorst, 1829) 黑头浮姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Pion japonicum Watanabe, 2016 日本针尾姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Pleolophus larvatus (Gravenhorst, 1829) 拉瘤角姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Pleolophus vestigialis (Förster, 1850) 短翅瘤角姬蜂 [New Record]

Distribution: CHINA (Ningxia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Polyblastus (*Polyblastus*) *cothurnatus* (Gravenhorst, 1829) 扣多卵姬蜂 [New Record]

Distribution: CHINA (Jilin).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Polyblastus (*Polyblastus*) *varitarsus fuscipes* Townes, 1992 棕多卵姬蜂 [New Record]

Distribution: CHINA (Xinjiang).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Polyblastus (*Polyblastus*) *varitarsus varitarsus* (Gravenhorst, 1829) 异多卵姬蜂 [New Record]

Distribution: CHINA (Heilongjiang, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Protarchus testatorius (Thunberg, 1822) 褐前姬蜂 [New Record]

Distribution: CHINA (Jilin, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus dauricus Kasparyan, 2012 大壮姬蜂
[New Record]

Distribution: CHINA (Beijing).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus jinjuensis (Lee & Cha, 1993) 简壮姬蜂
[New Record]

Distribution: CHINA (Fujian).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus koreensis Kasparyan, Choi & Lee, 2016 朝壮姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus lannae Reshchikov & Xu, 2017 岚壮姬蜂
[New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus nigritarsis (Hedwig, 1956) 黑跗壮姬蜂
[New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Rhorus orientalis (Cameron, 1909) 东方壮姬蜂
[New Record]

Distribution: CHINA (Jiangxi).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates auriculatus (Fabricius, 1804) 耳齿胫姬蜂 [New Record]

Distribution: CHINA (Jilin, Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scolobates nigriabdominalis Uchida, 1952 黑齿胫姬蜂 [New Record]

Distribution: CHINA (Liaoning).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scopesis Förster, 1869 视姬蜂属 [New Record Genus]

Distribution: CHINA (Inner Mongolia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera,

Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Scopesis frontator (Thunberg, 1824) 额视姬蜂 [New Record]

Distribution: CHINA (Inner Mongolia).

Sheng, Sun & Li (2020) Ichneumonids parasitizing sawflies in China (Hymenoptera, Ichneumonidae). **Science Press**, Beijing. (in Chinese with English abstract)

Platygastridae 广腹细蜂总科

Scelionidae 缘腹细蜂科

Macroteleia xui Hong & Chen, 2020 许氏大美细蜂 [New Species]

Holotype ♀ (SYSBM).

Host: Unknown.

Distribution: CHINA (Hebei, Yunnan, Shandong).

Hong, Popovici & Chen (2020) **ZooKeys** 939: 29–43.

Phanuromyia ricaniae Nam, Lee & Talamas, 2020 广翅蜡蝉亮卵蜂 [New Species]

Holotype ♀ (SNU).

Host: the eggs of *Ricania shantungensis* Chou & Lu (Hemiptera: Ricaniidae) 山东广翅蜡蝉卵.

Distribution: CHINA (Hebei, Yunnan, Shandong).

Nam et al. (2020) **Zootaxa** 4890(1): 109–118.

Oxyscelio nullicarina Mo & Chen, 2020 无脊尖缘腹细蜂 [New Species]

Holotype ♀ (SCAU).

Host: Unknown.

Distribution: CHINA (Hainan, Yunnan).

Mo et al. (2020) **Zootaxa** 4816: 251–310.

Oxyscelio paracuculli Mo & Chen, 2020 额拟兜帽尖缘腹细蜂 [New Species]

Holotype ♀ (SCAU).

Host: Unknown.

Distribution: CHINA (Guangdong, Hainan, Zhejiang).

Mo et al. (2020) **Zootaxa** 4816: 251–310.

Gryon ancilla Kozlov & Lê 1996 环粒卵蜂 [New Record]

Synonym: *Gryon clavaerus* Kozlov & Lê 1996 [New Synonym]

Distribution: CHINA (Guangdong); Vietnam, Cambodia.

Chen et al. (2020) **Biodiversity Data Journal** 8: e47687.

Oxyscelio aclavae Burks, 2013 无棒节尖缘腹细蜂 [New Record]

Distribution: CHINA (Hainan); Thailand, Brunei, Indonesia, Malaysia, Sri Lanka, Thailand.

Mo et al. (2020) **Zootaxa** 4816: 251–310.

Oxyscelio arcus Burks, 2013 圆拱尖缘腹细蜂 [New Record]

Distribution: CHINA (Fujian); Thailand, Indonesia.

Mo et al. (2020) **Zootaxa** 4816: 251–310.

Oxyscelio brevidentis Burks, 2013 短齿尖缘腹细蜂 [New Record]

Distribution: CHINA (Hainan, Yunnan); Thailand.

Mo et al. (2020) **Zootaxa** 4816: 251–310.

Oxyscelio excavatus (Kieffer, 1913) 无盖尖缘腹细蜂 [New Record]

Distribution: CHINA (Hainan, Zhejiang);
Philippines.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio flabelli Burks, 2013 扇尖缘腹细蜂
[New Record]

Distribution: CHINA (Yunnan); Thailand.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio jaune Burks, 2013 黄色尖缘腹细蜂
[New Record]

Distribution: CHINA (Guangxi); Thailand.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio kiefferi Dodd, 1914 基弗氏尖缘腹细蜂
[New Record]

Distribution: CHINA (Yunnan); Philippines.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio labis Burks, 2013 唇沟尖缘腹细蜂
[New Record]

Distribution: CHINA (Yunnan); Singapore.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio mesiodentis Burks, 2013 中纵突尖缘腹细蜂
[New Record]

Distribution: CHINA (Hainan); Malaysia,
Indonesia, Laos, Nepal, Thailand.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio mollitia Burks, 2013 柔韧尖缘腹细蜂
[New Record]

Distribution: CHINA (Zhejiang, Guangdong,
Yunnan); Japan, South Korea.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio nasolabii Burks, 2013 鼻唇沟尖缘腹细蜂
[New Record]

Distribution: CHINA (Zhejiang); Vietnam.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio nubbin Burks, 2013 小片尖缘腹细蜂
[New Record]

Distribution: CHINA (Yunnan); Thailand,
Vietnam.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio ogive Burks, 2013 哥特尖拱尖缘腹细蜂
[New Record]

Distribution: CHINA (Yunnan); Thailand,
Indonesia, Vietnam.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Oxyscelio reflectens Burks, 2013 弯脊尖缘腹细蜂
[New Record]

Distribution: CHINA (Yunnan); Thailand,
Indonesia, Laos, Vietnam.

Mo et al. (2020) *Zootaxa* 4816: 251–310.

Proctotrupoidea 细蜂总科

Heloridae 柄腹细蜂科

Helorus alborzicus Izadizadeh, van Achterberg &
Talebi, 2015 厄尔布尔士山柄腹细蜂

Synonym: *Helorus xinjiangensis* He & Xu, 2015
新疆柄腹细蜂 [New Synonym]

Distribution: CHINA (Xinjiang).

Zhang et al. (2020) *Zootaxa* 4821(3): 570–584.

Trigonalynoidea 钩腹蜂总科

Trigonalynidae 钩腹蜂科

Jezonogonolos nyingchiensis Chen & van
Achterberg, 2020 林芝平钩腹蜂 [New Species]

Holotype ♀ (SYSBM).

Host: Unknown.

Distribution: CHINA (Tibet).

Chen et al. (2020) *ZooKeys* 918: 83–98.

Taeniogonalos eurysona Chen & van Achterberg,
2020 宽腹钩腹蜂 [New Species]

Holotype ♀ (SYSBM).

Host: Unknown.

Distribution: CHINA (Tibet).

Chen et al. (2020) *ZooKeys* 918: 83–98.

Symphyta 广腰亚目

Tenthredinoidea 叶蜂总科

Argidae 三节叶蜂科

Arge listoni Wei, 2020 高域环腹三节叶蜂 [New
Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Gansu, Shaanxi, Henan,
Shandong, Hubei, Zhejiang, Hunan, Chongqing).

Chen, Wu & Wei (2020) *Entomotaxonomia*
42(1): 50–56.

Arge wanziae Wei, 2020 截斑黄腹三节叶蜂
[New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Zhejiang, Hunan).

Chen, Wu & Wei (2020) *Entomotaxonomia*
42(1): 50–56.

Cimbicidae 锤角叶蜂科

Praia megapulvilla Yan, Li & Wei, 2020 巨垫舌
锤角叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Hunan).

Yan et al. (2020) *Entomotaxonomia* 42(3): 231–
239.

Praia tianmunica Yan, Li & Wei, 2020 天目舌锤
角叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Zhejiang).

Yan et al. (2020) *Entomotaxonomia* 42(3): 231–
239.

Zaraea mengmeng Yan, Li & Wei, 2020 萌萌丑
锤角叶蜂 [New Species]

Holotype ♀ (LSAF).

Host plant: *Padus brachypoda* (Batal.) Schneid.
短梗稠李.

Distribution: CHINA (Zhejiang, Anhui).

Yan et al. (2020) *Scientia Silvae Sinicae* 56(5):
105–112.

Tenthredinidae 叶蜂科

Birka jiulong Liu, Li & Wei, 2020 九龙柄臀叶蜂
[New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Zhejiang).

Liu et al. (2020) *Entomotaxonomia* 42(3): 240–
246.

Cladiucha punctata Wei, 2020 刻胸枝膜叶蜂
[New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Yunnan).

Niu, Zhao & Wei (2020) *Entomotaxonomia*
42(4): 311–318.

Macrophya lishuii Li, Liu & Wei, 2020 丽水钩瓣

叶蜂 [New Species]

Holotype ♀ (LSAF).

Host plant: Unknown.

Distribution: CHINA (Zhejiang).

Liu, Li & Wei (2020) *Alpine Entomology* 4: 65–72.

Macrophya nigrihistris Li, Liu & Wei, 2020 黑

脊钩瓣叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Zhejiang, Hubei).

Liu, Li & Wei (2020) *Entomotaxonomia* 42(1): 57–69.

Macrophya nigrotrochanterata Liu, Li & Wei,

2020 暗转钩瓣叶蜂 [New Species]

Holotype ♀ (LSAF).

Host plant: Unknown.

Distribution: CHINA (Liaoning).

Liu, Li & Wei (2020) *Zoologia* 37: e51168.

Macrophya parahistrioides Li, Liu & Wei, 2020

拟密纹钩瓣叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Taiwan).

Liu, Li & Wei (2020) *Entomotaxonomia* 42(1): 57–69.

Macrophya tianquanensis Li, Liu & Wei, 2020 天

全钩瓣叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Sichuan).

Liu, Li & Wei (2020) *Entomotaxonomia* 42(1): 57–69.

Pachyprotasis parawui Zhong, Li & Wei, 2020

吴氏方颜叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Hunan, Zhejiang).

Zhong, Li & Wei (2020) *Entomotaxonomia* 42(4): 319–328.

Pachyprotasis rufofemorata Zhong, Li & Wei,

2020 红股方颜叶蜂 [New Species]

Holotype ♀ (CSCS).

Host plant: Unknown.

Distribution: CHINA (Hunan, Zhejiang).

Zhong, Li & Wei (2020) *Entomotaxonomia* 42(4): 319–328.

Siobla dianzangica Niu & Wei, 2020 滇藏侧跗叶

蜂 [New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Yunnan, Tibet).

Zhang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 130–142.

Siobla elevatina Niu & Wei, 2020 凸缘侧跗叶蜂

[New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Sichuan, Yunnan).

Tang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 143–162.

Siobla emeiensis Niu & Wei, 2020 峨眉侧跗叶蜂

[New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Sichuan).

Tang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 143–162.

Siobla kangba Niu & Wei, 2020 康巴侧跗叶蜂 [New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Sichuan).

Tang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 143–162.

Siobla melanogaster Niu & Wei, 2020 窄腹侧跗叶蜂 [New Species]

Holotype ♂ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Guizhou).

Zhang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 130–142.

Siobla taegeri Niu & Wei, 2020 泰戈侧跗叶蜂 [New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Yunnan).

Tang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 143–162.

Siobla trilineata Niu & Wei, 2020 三条侧跗叶蜂 [New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Tibet).

Zhang, Niu & Wei (2020) *Entomotaxonomia* 42(2): 130–142.

Tenthredo megamaculata Xiao, Niu & Wei, 2020

大斑长突叶蜂 [New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Sichuan, Tibet).

Xiao, Niu & Wei (2020) *Zoological Systematics* 45(2): 118–125.

Tenthredo nigrobullifera Xiao, Niu & Wei, 2020

黑绿长突叶蜂 [New Species]

Holotype ♀ (ASMN).

Host plant: Unknown.

Distribution: CHINA (Tibet).

Xiao, Niu & Wei (2020) *Zoological Systematics* 45(2): 118–125.

Siricoidea 树蜂总科

Xiphydriidae 项蜂科

Gryponeura quadrimaculata (Cameron 1899) 方斑偏须项蜂 [New Record]

Distribution: CHINA (Shaanxi); India, Laos.

Smith (2020) *Proceedings of the Entomological Society of Washington* 122(1): 135–146.

绝灭类群

Apocrita 细腰亚目

Ichneumonoidea 姬蜂总科

Ichneumonidae 姬蜂科

Amplipella abbreviata Li, Shih, Kopylov & Ren, 2020 双筒巨室姬蜂 [New Species from the Lower Cretaceous Yixian Formation]

Holotype ♀ (CNUB).

Distribution: CHINA (Liaoning).

Li et al. (2020) *Journal of Systematic Palaeontology* 18(11): 931–943.

Symphyta 广腰亚目

Anaxyeloidea 古锯蜂总科

Anaxyelidae 古锯蜂科

Brachysyntexis acuta Kopylov, Rasnitsyn, Zhang & Zhang, 2020 畸脉短杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♀ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Brachysyntexis brevicornis Kopylov, Rasnitsyn, Zhang & Zhang, 2020 短翅短杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♂ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Brachysyntexis laticella Kopylov, Rasnitsyn, Zhang & Zhang, 2020 宽室短杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♀ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Brachysyntexis minuta Kopylov, Rasnitsyn, Zhang & Zhang, 2020 小巧短杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♀ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Brachysyntexis rohwei Kopylov, Rasnitsyn, Zhang & Zhang, 2020 罗氏短杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♀ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Brachysyntexis sinensis Kopylov, Rasnitsyn, Zhang & Zhang, 2020 中华短杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♀ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Daosyntexis Kopylov, Rasnitsyn, Zhang & Zhang, 2020 道虎沟杉蜂属 [New Genus from the Middle Jurassic of Daohugou]

Type species: *Daosyntexis primus* Kopylov, Rasnitsyn, Zhang & Zhang, 2020; by original designation.

Distribution: CHINA (Inner Mongolia).

Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Daosyntexis primus Kopylov, Rasnitsyn, Zhang & Zhang, 2020 原始道虎沟杉蜂 [New Species from the Middle Jurassic of Daohugou]

Holotype ♀ (NIGPAS).

Distribution: CHINA (Inner Mongolia).

曹焕喜, 牛泽清, 唐璞, 李涛, 朱朝东 (2021) 中国膜翅目 2020 年新分类单元. 生物多样性, 29, 1026–1034.
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Kopylov et al. (2020) *Alcheringa: An Australasian Journal of Palaeontology* 44(1): 104–114.

Xyeloidea 长节叶蜂总科

Xyelidae 长节叶蜂科

Abrotoxyela curva Zheng, Chen, Zhang & Zhang,
2020 曲形华美长节叶蜂 [New Species from the
Middle Jurassic of Daohugou]
Holotype (NIGPAS).
Distribution: CHINA (Inner Mongolia).
Zheng et al. (2020) *Alcheringa: An Australasian
Journal of Palaeontology* 44(1): 115–120.

Magnaxyela rara Zheng, Chen, Zhang & Zhang,
2020 稀奇大长节叶蜂 [New Species from the
Middle Jurassic of Daohugou]
Holotype ♂ (NIGPAS).
Distribution: CHINA (Inner Mongolia).
Zheng et al. (2020) *Alcheringa: An Australasian
Journal of Palaeontology* 44(1): 115–120.

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Abbreviations of holotypes' depositories

正模标本保藏地缩写列表

缩写	英文全称	中文全称
Abbreviation	Full Form in English	Full Form in Chinese
ASMN	Asian Sawfly Museum, Nanchang, CHINA	南昌亚洲叶蜂标本馆
BSM	Biological Sciences Museum, Hong Kong University, Hong Kong, CHINA	香港大学生物科学博物馆
CAF	Insect Museum of Chinese Academy of Forestry, Beijing, CHINA	中国林业科学研究院昆虫标本馆
CAS	California Academy of Science, San Francisco, California, USA	美国旧金山加利福尼亚科学院
CNC	the Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, CANADIA	加拿大国家昆虫、蛛形纲动物和线虫标本馆
CNUB	College of Life Sciences, Capital Normal University, Beijing, CHINA	首都师范大学生命科学学院
CQNU	Chongqing Normal University, Chongqing, CHINA	重庆师范大学
CSCS	Central South University of Forestry and Technology, Changsha, CHINA	中南林业科技大学
DNUE	Daegu National University of Education, Science Education, Daegu, SOUTH KOREA	韩国大邱国立教育大学
EBRRS	the Emeishan Biological Resources Research Station, Leshan, CHINA	峨眉山生物资源实验站
FAFU	Fujian Agriculture and Forestry University, Fuzhou, CHINA	福建农林大学
FBUB	Institute of Zoology, Faculty of Biology, University of Belgrade, Belgrade, SERBIA	贝尔格莱德大学生物学院动物学研究所
GSFGPM	General Station of Forest and Grassland Pest Management, National Forestry and Grassland Administration, Shenyang, CHINA	国家林业和草原局森林和草原病虫害防治总站
GXNU	Insect Collection of Guangxi Normal University, Guilin, CHINA	广西师范大学昆虫标本馆

缩写	英文全称	中文全称
Abbreviation	Full Form in English	Full Form in Chinese
HNHM	the Hymenoptera Collection of the Hungarian Natural History Museum, Budapest, HUNGARY	匈牙利国家历史博物馆膜翅目标本馆
IBBL	Insect Biodiversity and Biogeography Lab (IBBL), School of Biological Sciences, Hong Kong University, Hong Kong, CHINA	香港大学生物科学学院生物多样性与生物地理实验室
IBSS	Federal Scientific Center of the East Asia Terrestrial Biodiversity (formerly Institute of Biology and Soil Science), Vladivostok, RUSSIA	俄罗斯东亚陆地生物多样性联邦科学中心
ICXU	Xinjiang University, Urumqi, CHINA	新疆大学
IEBR	Institute of Ecology and Biological Resources, Hanoi, VIETNAM	越南河内生态与生物资源研究所
IZCAS	Institute of Zoology, Chinese Academy of Sciences, Beijing, CHINA	中国科学院动物研究所
KIZ	Kunming Institute of Zoology, Chinese Academy of Science, Kunming, CHINA	中国科学院昆明动物研究所
KUEC	Entomological Laboratory and Institute of Tropical Agriculture, Kyushu University, Fukuoka, JAPAN	日本九州大学热带农业研究所昆虫学研究室
LSAF	Scientific Research and Management Center of East China Pharmaceutical Botanical Garden, Lishui, CHINA	丽水华东药用植物园
MZLU	the Biological Museum of Lund University, Lund, SWEEDEN	瑞典隆德大学生物标本馆
NAU	Nanjing Agricultural University, Nanjing, CHINA	南京农业大学
NCHUC	Chun Hsing University Collection, Taiwan, CHINA	中兴大学标本馆（台湾）
NEFU	Northeast Forestry University, HaErBin, CHINA	东北林业大学
NIGPAS	Nanjing Institute of Geology and Paleontology, Chinese Academy of Sciences, Nanjing, CHINA	中国科学院南京地质古生物研究所

缩写	英文全称	中文全称
Abbreviation	Full Form in English	Full Form in Chinese
NWUX	the collections in the Department of Life Sciences of the Northwest University, Xi An, CHINA	西北大学生命科学学院标本馆
OLML	Oberoesterreichisches Landesmuseum Linz, AUSTRIA	奥地利林茨国立博物馆
RMNH	Naturalis Biodiversity Center (RMNH), Leiden, NETHERLANDS	荷兰莱顿博物学生物多样性中心
SCAU	South China Agricultural University, Guangzhou, CHINA	华南农业大学
SMNG	Senckenberg Museum für Naturkunde, Görlitz, GERMANY	德国格尔利茨森肯贝格自然历史博物馆
SNU	College for Agriculture and Life Sciences, Seoul National University, Seoul, SOUTH KOREA	韩国首尔国立大学农业与生命科学学院
SYSBM	The Museum of Biology, Sun Yat-sen University, Guangzhou, CHINA	中山大学生物标本馆
TJAU	Tianjin Agricultural University, Tianjin, CHINA	天津农学院
TNMNS	Museum of Natural Science, Taiwan, CHINA	台湾自然科学博物馆
UB	University of Barcelona, Barcelona, SPAIN	西班牙巴塞罗那大学
USNM	National Museum of Natural History, Smithsonian Institution, Washington DC, USA	美国国家自然历史博物馆
YNAU	Yunnan Agricultural University, Kunming, CHINA	云南农业大学
ZIN	the collection of the Zoological Institute of the Russian Academy of Sciences, St. Petersburg, RUSSIA	俄罗斯科学院动物研究所标本馆
ZJU	Zhejiang University, Hangzhou, CHINA	浙江大学

	期刊或出版社名称	发表文章数量 (篇) Number of Publications	发表新物种数量 (个) Number of New Species Published
	Journal or Publisher		
1	Acta Zoologica Academiae Scientiarum	1	1
2	Alcheringa: An Australasian Journal of Palaeontology	2	10
3	Alpine Entomology	1	1
4	Asian Myrmecology	1	4
5	Biodiversity Data Journal	1	0
6	Bulletin of Entomological Research	1	0
7	Bulletin of the Kyushu University Museum	1	2
8	Caucasian Entomological Bulletin	1	2
9	Deutsche Entomologische Zeitschrift	1	11
10	Entomotaxonomia 昆虫分类学报	9	19
11	European Journal of Taxonomy	1	5
12	Far Eastern Entomologist	2	2
13	Forest Pest and Disease 中国森林病虫	1	0
14	Insect Systematics & Evolution	1	3
15	Insects	2	3
16	Journal of Asia-Pacific Entomology	3	3
17	Journal of Environmental Entomology 环境昆虫学报	1	0
18	Journal of Forestry Research 林业研究	1	1
19	Journal of Hymenoptera Research	7	13
20	Journal of Natural History	3	4
21	Journal of Northeast Forestry University 东北林业大学学报	2	2
22	Journal of Systematic Palaeontology	1	0
23	Opuscula Zoologica Budapest	1	3
24	Oriental Insects	1	1
25	Phytoparasitica	1	2
26	Proceedings of the Entomological Society of Washington	4	3
27	Science Press 科学出版社	1	81
28	Scientia Silvae Sinicae 林业科学	2	2
29	Sociobiology	1	1
30	Soil Organisms	1	4
31	Southwest China Journal of Agricultural Sciences 西南农业学报	1	0
32	ZooKeys	16	17
33	Zoologia	1	1
34	Zoological Systematics 动物分类学报	4	5
35	Zoosystematica Rossica	1	1
36	Zootaxa	26	114
	Total 共计	105	321