•生物编目• 2020年新物种专题

中国鞘翅目2020年新分类单元

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摘要: 鞘翅目是世界昆虫种类最丰富的类群, 具有重要的经济和生态意义。为及时掌握我国鞘翅目新分类单元和名称变动情况, 本文系统检索和整理了2020年发表的分类学文献。2020年共发表421个中国鞘翅目新分类单元, 包括新属21个、新亚属2个、新种387个、新亚种11个; 发表国家级新记录种51个; 提出了56个新组合、70个异名、7个物种异名名称变动、3个降级。重点研究类群包括步甲科、隐翅虫科、拟步甲科、天牛科、象甲科等。在地域分布方面, 新分类单元和新记录涉及33个省级行政区, 大多数新物种集中发现于云南和四川。建议今后及时地进行阶段性总结, 同时进行数字化, 以推动中国鞘翅目分类学研究成果的科学传播。

关键词: 鞘翅目; 新分类单元; 名称变动; 中国

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New taxa of Coleoptera from China in 2020

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ABSTRACT

Aims: Coleoptera are the most diverse of all insect orders, exhibiting high economic and ecological significance. The aim of this study is to grasp the situation of new taxa and name changes of Coleoptera from China published in 2020.

Methods: In this study, 198 articles published in 2020 were utilized to form an annual taxonomic report outlining new taxa and name changes of Chinese Coleoptera.

Results: A total of 421 new taxa of Chinese Coleoptera were published in 2020, including 21 new genera, 2 new subgenera, 387 new species, and 11 new subspecies. At the Chinese national level, 51 new taxa were recorded. In addition, 56 new combinations, 70 synonyms, 7 restorations and 3 degradations were provided. The taxa of greatest attention included Carabidae, Staphylinidae, Tenebrionidae, Cerambycidae and Curculionidae. 33 Chinese provincial-level administration areas contributed to new taxa and records, with most discoveries being concentrated in Yunnan and Sichuan provinces.

Conclusion: It is crucial that taxonomic information is regularly updated, digitized, and made available to researchers to promote the dissemination of recent research results and reflect the most current state of scientific knowledge.

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Key words: Coleoptera; new taxa; new name changes; China

鞘翅目是世界上最大的目级类群, 物种数量约占已知生物总物种数的1/4 (Zhang, 2011)。其分布范围广、生态位宽, 与国民生产关系密切。因此, 摸清鞘翅目多样性本底具有全局性和系统性意义。

伴随野外调研和分类鉴定工作的持续开展, 鞘翅目的物种名录不断得到更新, 这些新单元分散发表在国内外期刊和专著之中, 其最主要的信息集成展示方式就是物种名录(杨星科, 2004; Ghahari et al, 2015; Löbl & Löbl, 2016; 白明, 2020)。胡经甫先生最早对我国鞘翅目种类进行系统总结, 并在1937年出版的*Catalogus Insectorum Siensium*中记录我国鞘翅目昆虫75科6,164种(Wu, 1937); 华立中先生于2000年在其出版的《中国昆虫名录》中记录鞘翅目昆虫149科3,632属21,332种(华立中, 2000); 在《中国昆虫模式标本名录》的3个卷册中, 共记录模式标本产自中国的鞘翅目昆虫2,041种(崔俊芝等, 2007, 2009; Bai et al, 2014); 截止到2018年底, 中国已知鞘翅目数目增加到35,153种, 占世界已知鞘翅目种类的9% (聂瑞娥等, 2019)。然而, 鉴于中国鞘翅目物种名录整理的工作量大, 书籍出版周期长, 不利于相关信息的快速分享, 故亟需新的信息集成与发布模式。

在这个互联网信息爆发的时代, 在线数据库是一个理想的信息快速分享平台。但是, 在全球最大的生物多样性数据平台 Global Biodiversity Information Facility (GBIF)上仅查询到中国鞘翅目昆虫记录25,151条, 占世界鞘翅目记录的0.13% (截止到2021年4月)。这些信息远低于我国已知鞘翅目本底的物种清单数字, 其中也不乏部分谬误; 目前, 国内还缺乏权威鞘翅目专题数据库。为方便各个研究方向的读者及时了解和和使用新的分类学成果, 及时阶段性编写新种和新的修订工作清单成为一个现实可行的信息快速分享方式。

本文系统检索了 Zoological Record (<https://www.webofscience.com/wos/zoorec/basic-search/>)、中国知网(<https://www.cnki.net/>)和 Catalogue of Life (<https://www.catalogueoflife.org/>)等网络平台, 筛选出2020年发表了中国鞘翅目新单元、分类变动等的分类学文献198篇(附录1, 附录2), 硕士和博士学位

论文未包括。本文主要阶元的系统地位依据 Bouchard等提供的较为全面和权威的鞘翅目高阶元名称清单 (Bouchard et al, 2011; Bouchard & Bousquet, 2020)。

1 新发表分类单元的基本状况

根据文献统计, 2020年共发表鞘翅目新分类单元421个, 包括新属21个、新亚属2个、新种387个、新亚种11个; 提出了新组合56个、异名70个、异名变动7个, 将2个亚科降级为族, 1个属降级为亚属; 增加了国家级新记录种51个(附录1)。这些新分类单元、名称变动及新记录隶属于藻食亚目、肉食亚目、多食亚目的15个总科31个科。

2020年发表的新属(亚属)来自7个科, 即步甲科、隐翅虫科、露尾甲科、拟步甲科、天牛科、叶甲科、象甲科(表1)。在21个新属中, 有12个是根据新种建立, 剩余9个是根据现有属中的物种建立。

398个新种和新亚种分布在31个科中, 约占中国鞘翅目已知科数的22%, 大量新种隶属于常见的大科, 如隐翅虫科(101种)、拟步甲科(61种)、步甲科(50种)、象甲科(42种)、天牛科(30种)、金龟科(19种)、叶甲科(14种)。

56个新组合分布在9个科中, 其中叶甲科(21个)、象甲科(12个)、隐翅虫科(7个)、步甲科(5个)新组合数量较多。象甲科(27个)、芫菁科(10个)、拟步甲科(8个)和叶甲科(5个)异名数量较多。

7个异名名称(种级)的变动涉及到水龟科、拟步甲科和象甲科, 包括水龟科的*Coelostoma sulcatum* Pu, 1963从*Coelostoma stultum* (Walker, 1858)的异名中移除(Sheth et al, 2020), 拟步甲科的短毛小刺甲(*Myatis brevipilosum* Meng & Ren, 2005)从烁光双刺甲(*Bioramix micans* (Reitter, 1889))的异名中移除, 作为红足双刺甲(*Bioramix rubripes* (Reitter, 1889))的异名(Bai & Ren, 2020)。Smith等(2020)首次对中南半岛(除马来西亚)和中国的象甲科小蠹亚科区系进行系统总结, 其中5个涉及中国分布地的异名恢复为有效种: *Cyclorhipidion tenuigraphum* (Schedl, 1953), 曾作为*Cyclorhipidion fukiense* (Eggers, 1941)的异名; *Diuncus ciliatiformis* (Schedl, 1953), 曾作

表1 2020年中国鞘翅目新分类单元、新组合、异名及新记录数

Table 1 The number of new taxa, new combinations, synonyms and new records of Coleoptera from China in 2020

科 Family	新属及新亚属 New genus and new subgenus	新种及新亚种 New species and new subspecies	新组合 New combination	异名 Synonyms	新记录种 New records
水黾甲科 Hydroscaphidae		1			
步甲科 Carabidae	9	50	5	2	2
水龟科 Hydrophilidae		3			
阎甲科 Histeridae		2			
隐翅虫科 Staphylinidae	3	101	7	5	7
粪金龟科 Geotrupidae		5		1	
锹甲科 Lucanidae		8			
驼金龟科 Hybosoridae		1			
金龟科 Scarabaeidae		19	2	4	5
花甲科 Dascillidae		1			
吉丁甲科 Buprestidae		9		4	
溪泥甲科 Elmidae		3			
泽甲科 Limmichidae		1			
伪长花蚤科 Artematopidae		1			
叩甲科 Elateridae		9		2	3
郭公甲科 Cleridae		6	1		2
隐食甲科 Cryptophagidae		1			
露尾甲科 Nitidulidae	1	8			2
伪瓢虫科 Endomychidae		4			1
瓢虫科 Coccinellidae		1			3
卵光甲科 Euxestidae		1			
小蕈甲科 Mycetophagidae		2			
拟步甲科 Tenebrionidae	1	61		8	2
蚁形甲科 Anthicidae					10
芫菁科 Meloidae		1	2	10	2
伪蚁形甲科 Aderidae		1	1		
拟花蚤科 Scaptiidae		8			
天牛科 Cerambycidae	2	30	5	2	3
距甲科 Megalopodidae		4			2
叶甲科 Chrysomelidae	5	14	21	5	1
象甲科 Curculionidae	2	42	12	27	6
总数 Total number	23	398	56	70	51

为*Diuncus justus* (Schedl, 1931)的异名; *Euwallacea gravelyi* (Wichmann, 1914), 曾作为*Xyleborus wallacei* Blandford, 1896的异名; *Microperus fulvulus* (Schedl, 1942), 曾作为*Microperus corporaali* (Eggers, 1923)的异名; *Xyleborus cristatus* Hagedorn, 1908从*Ambrosiodmus apicalis* (Blandford, 1894)的异名中移除, 并组合至*Anisandrus*。

3个分类单元降级是拟步甲科的*Helopelius*属降级为*Stenohelops* (*Helopelius*)亚属(Nabozhenko et al, 2020), 阎甲科的蛀阎甲亚科(*Trypanaeinae*)降级为

蛀阎甲族(*Trypanaeini*) (Zhou et al, 2020), 阎甲科的Trypeticinae亚科降级为Trypeticini族(Zhou et al, 2020)。

国家新记录种以蚁形甲科(10种)、隐翅虫科(7种)所占比重较高。

2 新分类单元和新记录种的地域分布

按省份统计, 2020年发表的中国鞘翅目新物种主要分布在西南各省区(图1), 其中, 云南的新种数量为全国之冠, 其次是四川, 分别为97和87种。这

图1 2020年中国各省鞘翅目新种数量分布图
Fig. 1 The number of new species of Coleoptera from China in 2020 in each province

图2 2020年发表中国鞘翅目新种最多的20个期刊
Fig. 2 Top 20 journals in which Chinese new species of Coleoptera were published

两个省份是中国自然条件最复杂的地区，绝大部分地形为山地和丘陵，气候适宜，植被类型丰富多样且覆盖率高。另外，西藏、台湾、广西等也是鞘翅目新物种的主要来源地，而黑龙江、澳门、天津三地没有新物种被报道。

3 来源出版物

2020年，中国鞘翅目387个新种、11个新亚种被发表在38个期刊的159篇文章中。大多数新物种发

表于国际性刊物，部分新物种发表于地方性刊物或鞘翅目专属刊物(图2)。在这些期刊中，Zootaxa和ZooKeys在加速新物种的发表上发挥了重要作用，2020年共发表了261个鞘翅目新种(包括4个新亚种)，占中国鞘翅目新种总数的66%，出版了3篇有大量新物种集中发表的分类学文章：Smith等(2020)发表象甲科63个新物种，其中25种在中国有分布；Bai和Ren (2020)发表中国拟步甲科双刺甲属(Bioramix)的23个新种；Zhou (2020)发表中国拟步甲科窄亮轴甲

表2 2020年发表新种数量超过10个的中国学者**Table 2 Chinese authors who published more than 10 new species in 2020**

作者 Author	所在单位 Affiliation	关注类群 Research groups	发表的新种数 No. of new species
任国栋 Guodong Ren	河北大学 Hebei University	伪瓢虫科、拟步甲科 Endomychidae and Tenebrionidae	37
殷子为 Ziwei Yin	上海师范大学 Shanghai Normal University	隐翅虫科 Staphylinidae	32
白兴龙 Xinglong Bai	河北大学 Hebei University	拟步甲科 Tenebrionidae	31
周红章 Hongzhang Zhou	中国科学院动物研究所 Institute of Zoology, Chinese Academy of Sciences	隐翅虫科、天牛科、叶甲科 Staphylinidae, Cerambycidae and Chrysomelidae	24
田明义 Mingyi Tian	华南农业大学 South China Agricultural University	步甲科 Carabidae	23
周德尧 Deyao Zhou	上海师范大学 Shanghai Normal University	拟步甲科 Tenebrionidae	20
梁红斌 Hongbin Liang	中国科学院动物研究所 Institute of Zoology, Chinese Academy of Sciences	步甲科、距甲科、叶甲科 Carabidae, Megalopodidae and Chrysomelidae	15
沈琦 Qi Shen	上海师范大学 Shanghai Normal University	隐翅虫科 Staphylinidae	15
姜日新 Rixin Jiang	青岛科技大学 Qingdao University of Science and Technology	步甲科、隐翅虫科、驼金龟科、金龟科、溪泥甲科、14 拟步甲科 Carabidae, Staphylinidae, Hybosoridae, Scarabaeidae, Elmidae and Tenebrionidae	14
李晓燕 Xiaoyan Li	廊坊师范学院 Langfang Normal University	隐翅虫科、伪瓢虫科 Staphylinidae and Endomychidae	12
杨星科 Xingke Yang	中国科学院动物研究所、广东省科学院动物研究所 Institute of Zoology, Chinese Academy of Sciences; Institute of Zoology, Guangdong Academy of Sciences	郭公甲科、隐食甲科、露尾甲科、叶甲科 Cleridae, 11 Cryptophagidae, Nitidulidae and Chrysomelidae	11
王硕 Shuo Wang	青岛科技大学 Qingdao University of Science and Technology	步甲科、驼金龟科、金龟科、溪泥甲科、卵光甲科、10 拟步甲科 Carabidae, Hybosoridae, Scarabaeidae, Elmidae, Euxestidae and Tenebrionidae	10

属(*Morphostenophanes*)的17个新种、3个新亚种。

4 发表新分类单元的作者

123位中国学者参与了2020年鞘翅目新种发表,并参与了69%的新种命名,其中单独命名的新种215个,约占新种总数的54%,合作命名新种58个,约占15%。发表新种数量超过10个的中国学者见表2,他们来自河北大学、中国科学院动物研究所、华南农业大学、上海师范大学、青岛科技大学等单位。他们重点研究的类群是步甲科、隐翅虫科、伪瓢虫科、拟步甲科、天牛科、叶甲科、象甲科等。此外,中国学者参与发表的新属、新亚属、新组合、异名、新记录分别占各自总数的77%、69%、48%、44%和74%。

新中国成立之前,我国鞘翅目的分类学主要由外国人开展,国内的研究力量非常薄弱。新中国成立后的70多年里,我国鞘翅目分类队伍不断成长,与国外学者对中国鞘翅目研究的差距不断缩小,在一些类群的研究中,中国学者已占据主导地位。

5 小结与展望

由于鞘翅目种类繁多,如果仅凭少数专家个人力量编纂名录难免会造成一些信息更新不足。因此,在作为本文作者之一的杨星科研究员的牵头下,中国甲虫学界共同发起了《中国甲虫名录》丛书的编写工作。该书计划出版11卷,其中隐翅虫卷和天牛卷已正式出版(Lin & Yang, 2019; Li et al, 2019)。该丛书梳理了鞘翅目物种的名称变动、异名等历史信息,对摸清生物多样性本底具有全局性和系统性意义。但是,丛书的资料整理工作量大,耗时长,不利于甲虫信息的快速分享与更新。建议今后每年统计和汇编新增的甲虫物种种类信息,确保信息的准确性、更新的及时性和共享的便利性,从而有效服务我国生物多样性研究,支撑农林、海关、仓储等行业需求与“美丽中国”国家战略。

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附录 Supplementary Material

附录1 2020年中国鞘翅目新分类单元、新名称修订及国家新记录种清单

Appendix 1 The checklist of new taxa, new name changes and new records of Chinese Coleoptera published in 2020

<https://www.biodiversity-science.net/fileup/PDF/2021164-1.xlsx>

附录2 中国鞘翅目分类群2020年度报告文献目录

Appendix 2 Bibliography of Chinese Coleoptera for the year 2020

<https://www.biodiversity-science.net/fileup/PDF/2021164-2.pdf>

附录2 中国鞘翅目分类群2020年度报告文献目录

Appendix 2 Bibliography of Chinese Coleoptera for the year 2020

中国鞘翅目分类群 2020 年度报告文献目录

李露露, 路园园, 杜萍萍, 何雨寰, 董潇忆, 郝家胜, 杨星科, 白明

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