



•生物编目•

世界鞘翅目2020年新分类单元

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摘要: 鞘翅目昆虫是陆地上最大的生物类群, 具有极为丰富的物种多样性和形态多样性, 在陆地生态系统中发挥着重要作用, 与人类社会生产密不可分。定期对世界鞘翅目新分类单元进行汇总整理, 有助于更好地了解鞘翅目多样性的发展动态, 从而促进对生态系统结构与功能的了解以及鞘翅目昆虫资源的开发与保护。本文对2020年发表的世界鞘翅目分类学文献进行了系统地整理与分析。结果表明, 2020年共发表世界鞘翅目新分类单元3,228个(含化石种类), 包括1个新科5个新亚科13个新族218个新属18个新亚属2,973个新种; 提出了1,319个新组合610个新异名49个降级的分类单元及61个升级的分类单元。重点研究的类群包括隐翅虫科(Staphylinidae)、步甲科(Carabidae)、象甲科(Curculionidae)、天牛科(Cerambycidae)等。世界鞘翅目昆虫新物种模式标本产地涉及118个国家和地区, 大部分新物种分布于中国、巴西、墨西哥、厄瓜多尔、印度尼西亚、澳大利亚和越南。收录世界鞘翅目昆虫新发表种的论文/专著共995篇/部, 涉及期刊或出版社141个。2020年, 世界鞘翅目分类学取得了显著进展, 但同时也暴露了新种发现速度略慢于1978–2000年的平均速度以及地区和类群研究力度不均衡的问题, 未来仍需加大投入, 探寻更加高效准确的方法, 以期实现对全球生物多样性的全面评估和保护。

关键词: 世界; 鞘翅目; 新分类单元; 分类学

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The world new taxa of Coleoptera in 2020

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ABSTRACT

Aims: Coleoptera is the largest group on the land, with extremely rich species diversity and morphological diversity, and plays an important role in terrestrial ecosystems and is closely related to human social production. Regularly summarizing the new taxa of the Coleoptera in the world will help disseminate recent achievements in the field of taxonomy and provide a valuable resource for the beetle diversity, so as to promote the development and protection of Coleoptera resources.

Method: In this study, we systematically collected and analyzed the taxonomic literature of Coleoptera published in

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2020 from around the world.

Results: In 2020, a total of 3,228 new taxa of Coleoptera in the world were published, including 1 new family, 5 new subfamilies, 13 new tribes, 218 new genera, 18 new subgenera, 2,973 new species. In addition, this paper also collected 1,319 new combinations, 610 new synonyms, 49 degraded taxa and 61 raised taxa. The most studied taxa included Staphylinidae, Carabidae, Curculionidae, Cerambycidae, etc. The new species of Coleoptera in 2020 were reported from 118 countries and regions, with most discoveries being concentrated in China, Brazil, Mexico, Ecuador, Indonesia, Australia, Vietnam, etc. These new findings were reported in 995 articles or monographs from 141 journals or publishers.

Conclusion: In 2020, there was significant progress in global beetle taxonomy, while the discovery rate of new species is slightly slower than the average rate between 1978 and 2000 and the regional bias is occurred. It is crucial to increase the investment on taxonomy and explore more efficient and accurate methods to access and protect the global biodiversity thoroughly.

Key words: world; Coleoptera; new taxa; taxonomy

生物多样性是地球上生命经过几十亿年发展进化的结果,是生命支持系统最重要的组成部分,维持着自然界生态系统的平衡,是人类生存和可持续发展必不可少的基础(黎燕琼等, 2011)。然而,在过去几十年里,由于各种自然运动及灾害的发生、人口的急剧增长和人类活动的不断加剧,全球环境持续恶化,生态平衡遭受严重破坏,生物多样性正以空前的速度减少,地球已进入“第六次灭绝危机”(Erwin & Johnson, 2000)。因此,生物多样性的研究和保护在当前显得尤为重要,尤其是对权威分类信息的需求比以往任何时候都高(Zhang et al, 2011)。

目前,所有生物体中已被命名和描述的有效物种约有150万种,其中,最成功的群体是昆虫纲,大约有1,020,007种,约占所有动物的66%,是全球生物多样性的的重要组成部分(Zhang et al, 2011)。鞘翅目是昆虫纲的第一大目,几乎分布于陆地上的每一个角落(Lawrence & Britton, 1994)。鞘翅目昆虫大约出现在2.85亿年前,随后,辐射出原鞘亚目(Archostemata)、肉食亚目(Adephaga)、菌食亚目(Myxophaga)和多食亚目(Polyphaga) (Hunt et al, 2007)。迄今,世界已记录鞘翅目昆虫约35万至40万种,约占世界已描述物种的25% (Stork et al, 2015)。但由于对物种的研究不成比例,导致在已知昆虫物种中,平均每种昆虫的研究论文数量差异很大,鞘翅目的许多科已被完全忽略(Stork, 2018)。

鞘翅目昆虫不仅具有丰富的物种多样性,其形态学和生物学特性也十分丰富,在生态保护和经济社会发展中具有重要作用(Hunt et al, 2007)。药用方面,芫菁科(Meloidae)、龙虱科(Dytiscidae)、天牛科(Cerambycidae)、金龟科(Scarabaeidae)等的部分昆虫

皆具有一定的药用价值(臧贵君等, 2001);生物防治方面,捕食性甲虫如瓢虫科(Coccinellidae)、隐翅虫科(Staphylinidae)、步甲科(Carabidae)等对控制害虫数量起到了关键作用^①;植物传粉方面,许多鞘翅目昆虫都是重要的传粉昆虫,如露尾甲科(Nitidulidae)、金龟科、花甲科(Dascillidae)、郭公甲科(Cleridae)等(罗峰和雷朝亮, 2003);生态平衡方面,粪食/腐食性甲虫如蜣螂亚科(Scarabaeinae)、葬甲科(Silphidae)等,在加快营养物质周转、抑制有害蝇类繁殖等方面具有重要作用(李久文, 2009^②;白明和杨星科, 2010);此外,鞘翅目昆虫是文化昆虫学的一个重要分支,在美学、饮食文化、建筑学等方面都有独特的文化内涵^③。

鞘翅目昆虫种类多、分布广,使名录整理工作难度增大。目前,仅少数科学家对此进行了整理,如Zhang等(2011)在Zootaxa发表的专刊中对世界鞘翅目物种数进行了系统整理,共记录鞘翅目昆虫5亚目24总科207科29,624属387,100种;Bouchard等(2011)首次综合所有已知的鞘翅目各级阶元名称数据,涉及24个总科211个科541个亚科1,663个族和740个亚族。但是,据Erwin和Johnson (2000)估计,有超过200万种甲虫尚未描述。因此,有必要定期对分散于各书籍和期刊中的有关鞘翅目昆虫新分类单元的记录进行总结,以方便相关研究者参考和引用,加快鞘翅目分类学的发展。

① 刘少番 (2016) 环京津地区部分捕食性甲虫 DNA 条形码研究. 硕士学位论文, 河北大学, 保定.

② 李久文 (2009) 松嫩草地牛粪中大型节肢动物群落动态及对蝇类繁殖控制研究. 硕士学位论文, 东北师范大学, 长春.

③ 王与琳 (2020) 中国唐诗、宋词和元曲中的文化甲虫资源与赏析. 硕士学位论文, 河北大学, 保定.

1 数据获取及整理

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/>)、Catalogue of Life (<https://www.catalogueoflife.org/>)等网络数据平台,以new、nov、transferred、raised、combine、combined、synonym、synonymized、combination、Coleoptera、beetle,以及Bouchard等(2011)列出的鞘翅目科名和亚科名(如Tshekardocoleidae、Labradorocoleidae、Oborocoleidae等)为检索词,限定发表年份为2020年,在数据库中检索并下载检索结果。同时在各位同行支持下补充了部分尚未录入数据库的相关文献中的甲虫分类信息,根据新科、新族、新属、新种、新组合、新异名、降级、升级等条目进行筛选和整理,将相应数据按字段单独成表,剔除非鞘翅目的记录。

2 结果

2.1 世界鞘翅目2020年新分类单元基本情况

2020年共发表世界鞘翅目新分类单元3,228个,具体包括1个新科5个新亚科13个新族218个新属18个新亚属2,973个新种;提出1,319个新组合610个新异名49个降级分类单元及61个升级分类单元(表1)。

2.2 新发表的科/亚科和族级分类群

2020年报道了一个来自巴西大西洋雨林的新科,即Jurasidae,隶属于叩甲总科(Elateroidea)。另外,新增了5个亚科,分别是Coomaniinae、Chespiritoinae、†Antigracilinae、†Palaeotylinae和†Kryzhanovskianinae,分别隶属于隐翅虫科、萤科(Lampyridae)、阎甲科(Histeridae)、象甲科(Curculionidae)和步甲科。

新族共计13个,其中Acomini、Chnaunanthini、Phobetusini、Warwickiini隶属于金龟科,其余9个是Haraiaini (隶属于长泥甲科Heteroceridae)、Coriacephilini (象甲科)、Madeirodulini (瓢虫科)、Microzaenini (步甲科)、†Pantostictini (阎甲科)、†Palpattalini (拟花萤科Melyridae)、†Burmomaceratini (毛象科Nemonychidae)、†Burmocorynini (矛象科Belidae)、†Myanmaropini (叶甲科Chrysomelidae)。

2.3 新发表的属级分类群

2020年发表世界鞘翅目昆虫新属218个新亚属

18个,分别来自54个科。其中,现生属161个,亚属17个,占到了新属(亚属)的75.42%,来自33个科,超过1/3的现生属级分类群隶属于步甲科(23个)、叶甲科(23个)和天牛科(20个);绝灭属57个,亚属1个,占总数的24.58%,来自37个科,接近1/4的绝灭属级分类群隶属于隐唇叩甲科(Eucnemidae, 9个)、隐翅虫科(3个)、叶甲科(2个)。

2.4 新发表的种级分类群

2020年在141个期刊/出版社的995篇文献/著作中发表了世界鞘翅目新种2,901个,新亚种72个,共计2,973个,分别来自24个总科91科。其中,数量较多的5个科分别为:隐翅虫科(399种)、金龟科(291种)、象甲科(290种)、步甲科(281种)和天牛科(240种),分别占新种总数的13.42%、9.79%、9.75%、9.45%和8.07%。皮扁甲科(Phloeostichidae)、姬花甲科(Phalacridae)、大花蚤科(Ripiphoridae)、绒皮甲科(Mycteridae)和三桠牛科(Trictenotomidae)等科新种仅1种。小花甲科(Byturidae)、圆蕈甲科(Cyclaxyridae)和谷盗科(Trogossitidae)等科无新增物种。

发表的新种中,有2,835个现生种,占新种总数的95.36%,来自21个总科75个科。约50%的现生新种隶属于隐翅虫科(384种)、金龟科(291种)、象甲科(286种)、步甲科(280种)、天牛科(237种),分别占现生新种的13.54%、10.26%、10.09%、9.88%和8.36%。绝灭种有138个,占新种总数的4.64%,来自18个总科45个科。约一半绝灭种隶属于花萤科(Cantharidae, 21种)、隐唇叩甲科(21种)、隐翅虫科(15种)、拟步甲科(Tenebrionidae, 6种)、红萤科(Lycidae, 5种),分别占绝灭种的15.22%、15.22%、10.87%、4.35%和3.62%。

2.5 新发表的组合和异名

2020年发表的世界鞘翅目昆虫新组合共计1,319个,涉及象甲科(241个)、天牛科(205个)、叶甲科(159个)、蚁形甲科(Anthicidae, 145个)、瓢虫科(124个)、红萤科(83个)等在内的36个科。新异名共计610个(包括属级和种级异名),涉及象甲科(109个)、天牛科(73个)、叶甲科(56个)、隐翅虫科(52个)、金龟科(46个)等在内的42个科,包含3个绝灭类群。

2.6 新发表的降级和升级分类群

2020年发表的世界鞘翅目昆虫新降级条目共计49个,其中1个由科级降为亚科级,7个由亚科级

表1 2020年世界甲虫新属、新种、新组合、新异名、降级和升级情况一览表

Table 1 The list of new genera, new species, new combinations, new synonyms, degraded and raised of global beetles in 2020

科名 Families	新属/亚属 New genera / subgenera	新种/亚种 New species / subspecies	新组合 New combinations	新异名 New synonyms	降级 Degraded	升级 Raised
伪蚁形甲科 Aderidae	3	20	40	4		
兔葬甲科 Agyrtidae	1	1				
蚁形甲科 Anthicidae		19	145	10		
长角象科 Anthribidae		8				
拟长角花蚤科 Armatopodidae	1	1				
†Asiocoleidae	1	1				
卷象科 Attelabidae		2				
†Berendtimiridae	1	1				
长蠹科 Bostrichidae	2	2				
百合象科 Brachyceridae		2		2		
颈萤科 Brachypsectridae	1	2				
三锥象科 Brentidae	1	4	2	2		
吉丁甲科 Buprestidae	2	78		34	2	
丸甲科 Byrrhidae		2				
小花甲科 Byturidae				1		
花萤科 Cantharidae	1	64	7	34		
步甲科 Carabidae	24	281	29	21	13	7
天牛科 Cerambycidae	21	240	205	73	6	11
叶甲科 Chrysomelidae	25	167	159	56		2
木蕈甲科 Ciidae		5				
郭公甲科 Cleridae	1	69	3	4		
瓢虫科 Coccinellidae	2	52	124	19		
隐食甲科 Cryptophagidae		4	5			
扁甲科 Cucujidae		6				
象甲科 Curculionidae	14	290	241	109	2	1
圆蕈甲科 Cyclaxyridae				3		
花甲科 Dascillidae	1	5		2		
皮蠹科 Dermestidae	2	7	5	3		4
瘦天牛科 Disteniidae		8				
泥甲科 Dryopidae	3	5	1			
龙虱科 Dytiscidae	1	51	11	9		2
叩甲科 Elateridae	1	69	27	14		
溪泥甲科 Elmidae		32				
伪瓢虫科 Endomychidae		6	1			
大蕈甲科 Erotylidae	5	13	13	13		
扁股花甲科 Eucinetidae		1				
隐唇叩甲科 Eucnemidae	9	33				2
皮坚甲科 Cerylonidae		2				
粪金龟科 Geotrupidae		12		1		
漠金龟科 Glaresidae		3				
豉甲科 Gyrinidae	1	1				
蜡斑甲科 Helotidae	1	2				
长泥甲科 Heteroceridae	2	6				

表1 (续) Table 1 (continued)

科名 Families	新属/亚属 New genera / subgenera	新种/亚种 New species / subspecies	新组合 New combination	新异名 New synonyms	降级 Degraded	升级 Raised
阎甲科 Histeridae	3	71	2	1	2	
驼金龟科 Hybosoridae		3				
平唇水龟甲科 Hydraenidae		10				
水龟甲科 Hydrophilidae	1	97	3	3		1
水缨甲科 Hydroscaphidae		1				
纤口萤科 Jurasidae*	2	3				
萤科 Lampyridae	1	44	7	4		1
薪甲科 Latridiidae		17		4		
球蕈甲科 Leiodidae	2	7				
单跗甲科 Lepiceridae	1	1				
泽甲科 Limnichidae		3				
锹甲科 Lucanidae		11		1		1
红萤科 Lycidae	4	27	83	1		
筒蠹科 Lymexylidae	3	2		3		
距甲科 Megalopodidae		4				
长朽木甲科 Melandryidae	2	3				
芫菁科 Meloidae		8	4	17		1
拟花萤科 Melyridae	8	15	10	1		1
复变甲科 Micromalthidae	2	2				
小扁甲科 Monotomidae	1	4				
花蚤科 Mordellidae		6		1	1	
小蕈甲科 Mycetophagidae		2				
绒皮甲科 Mycteridae	1	1				
毛象科 Nemonychidae	2	2				
露尾甲科 Nitidulidae	3	22	18	2		1
小丸甲科 Nosodendridae		2				
小粒龙虱科 Noteridae		7	2	1		
红金龟科 Ochodaeidae	1	3	5	1		
眼甲科 Ommatidae	2	6	3			
黑蜣科 Passalidae		3	3	2		1
姬花甲科 Phalacridae	1	1				
光萤科 Phengodidae	2	4	1			
皮扁甲科 Phloeostichidae		1				
扁泥甲科 Psephenidae		1				
缨甲科 Ptiliidae		96				
蛛甲科 Ptinidae	5	11		21		
大花蚤科 Ripiphoridae		1				
缢胸甲科 Salpingidae	1	2	1			
金龟科 Scarabaeidae	8	291	39	46	5	10
沼甲科 Scirtidae	17	21	47	2		
拟花蚤科 Scaptiidae		11				
葬甲科 Silphidae		1				
锯谷盗科 Silvanidae	2	2	4	2		

表1 (续) Table 1 (continued)

科名 Families	新属/亚属 New genera / subgenera	新种/亚种 New species / subspecies	新组合 New combination	新异名 New synonyms	降级 Degraded	升级 Raised
隐翅虫科 Staphylinidae	24	399	50	52	16	12
拟步甲科 Tenebrionidae	8	151	16	29	2	3
斑蕈甲科 Tetratomidae	1	2				
三栉牛科 Trictenotomidae		1				
皮金龟科 Trogidae		3	3	1		
谷盗科 Trogossitidae				1		
暗天牛科 Vesperidae		1				
幽甲科 Zopheridae	1	9				
总计 Total	237	2,973	1,319	610	49	61

* 本科隶属于叩甲总科, 但该科昆虫没有叩头机制, 雌虫幼态持续、体型与萤或花萤相似, 因此以“萤”字命名。而拉丁科名是基于微小的口器这一特征。综合考虑, 命中文科名为纤口萤科。

* This family belongs to superfamily Elateroidea, but adults without click mechanism. Neoteny presents in females and their body shape are similar to the Lampyridae or the Cantharidae, so it was named after the word “萤”. The latin name of this family is based on the character of tiny mouthparts. Therefore, this family’s Chinese name is named as “纤口萤科”.

降为族级, 11个由族级降为属级, 25个由属级降为亚属级, 5个由种级降为亚种级。涉及降级最多的3个科分别为: 隐翅虫科(16个)、步甲科(13个)和天牛科(6个)。涉及到化石类群1个, 隶属于花蚤科(Mordellidae)。

发表的新升级条目共计61个, 其中4个由族级升为亚科级, 12个由属级升级为族级, 10个由亚属级升为属级, 35个由亚种级升为种级。涉及升级最多的科分别为: 隐翅虫科(12个)、天牛科(11个)和金龟科(10个), 涉及到化石类群3个。

3 新种的地域分布

以国家为单位进行统计, 2020年发表的世界鞘翅目昆虫新物种的模式标本产地涉及中国、巴西、墨西哥等118个国家和地区。有106个国家所报道的新种皆为现生种, 如巴西、厄瓜多尔和印度尼西亚等; 有9个国家报道的新种中既有现生种, 也有绝灭种, 如中国、墨西哥和澳大利亚等; 乌克兰、德国和立陶宛三国报道的新种皆为绝灭种。埃及、利比亚等国无新种报道。

发表现生新种超过百种的国家分别为: 中国(431种)、巴西(188种)、墨西哥(163种)、厄瓜多尔(120种)、印度尼西亚(113种)、澳大利亚(109种)和越南(100种), 分别占2020年世界鞘翅目昆虫新种发表总数的14.56%、6.32%、5.58%、4.04%、3.90%、3.73%和3.36%。另外, 菲律宾、秘鲁、缅甸、泰国等在内

的37个国家发表的现生新种都在10到100种之间(图1), 亚美尼亚、马拉维、法国、波多黎各和巴基斯坦等在内的其余71个国家和地区发表的现生新种

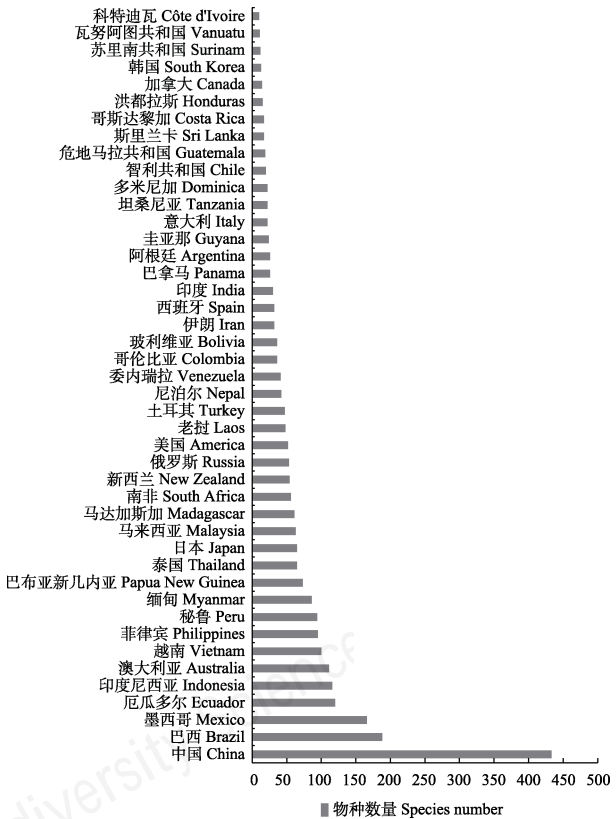


图1 2020年记录10种及以上鞘翅目新种的国家及其新种数
Fig. 1 The countries that recorded 10 or more new species of Coleoptera in 2020 and the number of new species in each country

数少于10种(有11个现生新种的分布地未给出)。

此外,在缅甸、俄罗斯、波兰等12个国家中发现了绝灭新种,其中,发表绝灭新种最多的两个国家为缅甸(71种)和俄罗斯(35种),其余10个国家发表的绝灭新种都在10种以下:波兰5种,乌克兰5种,墨西哥3种,多米尼加3种,中国2种,法国2种,德国2种,澳大利亚1种,新西兰1种,立陶宛1种。

4 来源出版物

2020年, 收录世界鞘翅目昆虫新发表种的论文/专著995篇, 涉及141个期刊或出版社(图2)。其中, 发表新种超百种的共有4个期刊: *Zootaxa* 共发表新种论文254篇, 记录新种732个, *ZooKeys* 54篇264个新种, *European Journal of Taxonomy* 15篇182个新种, *Insecta Mundi* 43篇152个新种, 分别占了2020年世界鞘翅目新种数目的24.62%、8.88%、6.12%和5.11%, 这些期刊对推动新种发表做出了重要贡献。国外期刊是分类学者发表新种的主要阵地, 也有部分学者将新种论文发表在中国期刊上, 如贾凤龙等(2020)在*Entomotaxonomia* (《昆虫分类学报》英文版)上发

表刻纹牙甲属(*Thysanarthria*) 1个新种; 包童(2020)在《古生物学报》上发表花蚤科1个新种, 并将短尾花蚤科(*Apotomouridae*)修订为短尾花蚤亚科(*Apotomourinae*)。

Darby (2020)单篇发表缨甲科(Ptiliidae)新种77个; Smith等(2020)单篇发表了象甲科新种63个; Will (2020)单篇发表了步甲科新种51个; Caterino等(2020)单篇发表了阎甲科新种49个。

5 小结与展望

本文汇总了网络平台数据和专家提供的文献信息,对隐藏其中的多样性信息进行了挖掘与分析,由于部分新种发表期刊未收录在Zoological Record中等原因,即使有国内外同行的支持,本文统计数据也很可能无法做到100%完整,但其研究结果已足以反映新分类群的基本情况。从结果不难看出,2020年世界鞘翅目分类学取得了重大进展:发表了包括新科、新亚科、新族、新属和新亚属等在内的3,228个新分类群,以及2,039个阶元和名称变动;隐翅虫科、步甲科、象甲科、天牛科等常见类群的



图2 2020年发表世界鞘翅目新种的期刊/书名词云

Fig. 2 The term cloud of journals or monographs that published new species of Coleoptera worldwide in 2020





分类学工作取得显著成果。另外,从新种模式标本产地的分布情况不难看出,中国、巴西、墨西哥、厄瓜多尔、印度尼西亚、澳大利亚和越南是2020年记录新种最多的7个国家,这与各国的气候和植被类型以及对生物多样性的重视程度和保护力度的不断加强密不可分。从发表新种的期刊来看,传统的分类学期刊*Zootaxa*和*ZooKeys*是甲虫新种发表最重要的期刊,贡献了约1/3的新种。

虽然2020年世界鞘翅目分类工作取得了诸多成果,但同时也暴露了许多问题:(1) Erwin和Johnson (2000)统计的1978–2000年的年平均甲虫新种发表数量为3,154种,而2020年发表的现生甲虫新种数量仅有2,835种,减少了319种(约占10%),新种发现速度趋缓,这是多方面原因共同造成的;(2)部分国家和地区2020年仅发现1种甲虫新种(如乌拉圭、文莱等),有些国家甚至无新种记录(如埃及、利比亚等),而有些国家甲虫新种超过百种(如中国、巴西等),这与不同国家地区的调查力度和资源投入规模关系密切;(3)类群间研究程度的差异也十分显著,许多类群(如隐翅虫科、步甲科等)的分类工作在不同阶元上均有进展,而部分类群却鲜有人问津,如水黉甲科(Hydrosaphidae)、扁泥甲科(Psephenidae)等。

综上所述,为弄清世界鞘翅目多样性状况,还需投入更多的人力、物力和财力,获得更多地点的标本,开展更多类群的分类研究;同时,还需不断创新传统分类学方法,如将人工智能应用于传统分类学中,从而实现物种更加快速准确的分类鉴定和发现新物种,进而实现对全球生物多样性更好的了解与保护。

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附录 Supplementary Material

附录1 世界鞘翅目2020年新分类单元和新名称修订清单

Appendix 1 The amendment of new taxa and new name of Coleoptera from all over the world published in 2020

<https://www.biodiversity-science.net/fileup/PDF/2021507-1.xlsx>

附录2 世界鞘翅目分类群2020年度报告文献附录

Appendix 2 Bibliography of global Coleoptera for the year 2020

<https://www.biodiversity-science.net/fileup/PDF/2021507-2.pdf>

附录2 世界鞘翅目分类群2020年度报告文献附录

Appendix 2 Bibliography of global Coleoptera for the year 2020

目录

复变甲科 Micromalthidae	1
眼甲科 Ommatidae	1
Asiocolidae	1
单跗甲科 Lepiceridae	1
水缨甲科 Hydroscaphidae	1
豉甲科 Gyrinidae	1
步甲科 Carabidae	1
小粒龙虱科 Noteridae	7
龙虱科 Dytiscidae	7
水龟甲科 Hydrophilidae	9
阎甲科 Histeridae	10
平唇水龟甲科 Hydraenidae	10
缨甲科 Ptiliidae	11
觅葬甲科 Agyrtidae	11
球蕈甲科 Leiodidae	11
葬甲科 Silphidae	13
隐翅虫科 Staphylinidae	13
黑蜣科 Passalidae	22
皮金龟科 Trogidae	22
漠金龟科 Glaresidae	22
锹甲科 Lucanidae	22
红金龟科 Ochodaeidae	23
驼金龟科 Hybosoridae	23
金龟科 Scarabaeidae	23
扁股花甲科 Eucinetidae	29
沼甲科 Scirtidae	29
花甲科 Dascillidae	30
吉丁甲科 Buprestidae	30
丸甲科 Byrrhidae	31
溪泥甲科 Elmidae	31
泥甲科 Dryopidae	32
泽甲科 Limnichidae	32
长泥甲科 Heteroceridae	32
扁泥甲科 Psephenidae	32
拟长角花蚤科 Armatopodidae	32
颈萤科 Brachypsectridae	33
隐唇叩甲科 Eucnemidae	33
叩甲科 Elateridae	33
Berendtimiridae	34
红萤科 Lycidae	34
光萤科 Phengodidae	35

萤科 Lampyridae	35
花萤科 Cantharidae	35
小丸甲科 Nosodendridae	36
皮蠹科 Dermestidae	36
长蠹科 Bostrichidae	37
蛛甲科 Ptinidae	37
筒蠹科 Lymexylidae	38
谷盗科 Trogossitidae	38
郭公甲科 Cleridae	38
拟花萤科 Melyridae	39
小花甲科 Byturidae	39
蜡斑甲科 Helotidae	40
大蕈甲科 Erotylidae	40
小扁甲科(球棒甲科)Monotomidae	40
隐食甲科 Cryptophagidae	40
皮扁甲科 Phloeostichidae	41
锯谷盗科 Silvanidae	41
扁甲科 Cucujidae	41
姬花甲科 Phalacridae	41
圆蕈甲科 Cyclaxyridae	41
露尾甲科 Nitidulidae	41
伪瓢虫科 Endomychidae	42
瓢虫科 Coccinellidae	42
薪甲科 Latridiidae	43
小蕈甲科 Mycetophagidae	43
木蕈甲科 Ciidae	43
斑蕈甲科 Tetratomidae	44
长朽木甲科 Melandryidae	44
花蚤科 Mordellidae	44
大花蚤科 Rhipiphoridae	44
幽甲科 Zopheridae	44
拟步甲科 Tenebrionidae	45
芫菁科 Meloidae	48
绒皮甲科 Mycteridae	48
三桠牛科 Trictenotomidae	48
缢胸甲科 Salpingidae	48
蚁形甲科 Anthicidae	48
伪蚁形甲科 Aderidae	49
拟花蚤科 Scaptiidae	49
暗天牛科 Vesperidae	49
瘦天牛科 Disteniidae	49
天牛科 Cerambycidae	49
距甲科 Megalopodidae	56
叶甲科 Chrysomelidae	56

毛象科 Nemonychidae.....	60
长角象科 Anthribidae	60
矛象科 Belidae	60
卷象科 Attelabidae	60
三锥象科 Brentidae	60
百合象科 Brachyceridae	61
象甲科 Curculionidae.....	61
纤口萤科 Jurasidae.....	66

复变甲科 **Micromalthidae**

Tihelka E, Huang DY, Cai CY (2020) A new genus and species of Micromalthidae from Burmese amber (Coleoptera: Archostemata). Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 111(1), 39–46.

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单跗甲科 **Lepiceridae**

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豉甲科 **Gyrinidae**

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步甲科 **Carabidae**

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