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Catalogue of the family Sesiidae in China (Lepidoptera: Sesiidae)

Q. Jin, S. X. Wang & H. H. Li

Abstract

A catalogue of the family Sesiidae in China is provided based partially on the research of the previous literature and partially on the study of the specimens in our collection. A total of 108 species in 26 genera are listed, along with the available information of distribution and host plants.

KEY WORDS: Lepidoptera, Sesiidae, catalogue, host plants, distribution, China.

Catálogo de la familia Sesiidae en China (Lepidoptera: Sesiidae)

Resumen

Se presenta un catálogo de la familia Sesiidae en China basado parcialmente sobre las revisiones bibliográficas y parcialmente sobre el estudio de los especímenes en nuestra colección. Se da una lista de 108 especies en 26 géneros, así como la información disponible de su distribución y plantas nutricias.

PALABRAS CLAVE: Lepidoptera, Sesiidae, catálogo, plantas nutricias, distribución, China.

Introduction

Clearwing moths, the family Sesiidae contains about 1400 species in 150 genera and is distributed worldwide. Most clearwing moths are diurnal, just a minority of species with phototaxis. Many species have a developed proboscis and visit certain kinds of flowers. The known life cycle of clearwing moths in China is one generation a year or two generations every three years. Imago flies at different times of the year, and the active period varies from several days to several months in different species. Eclosion usually occurs in the early morning. The female pairs shortly after eclosion, and the copulation can last from several minutes to one hour or more. The eggs are usually laid on different parts of the host plants, such as on stems, leaves and twigs. But some species lay their eggs on other objects around the host plants. The females of small species usually lay 80-200 eggs, but as to the larger ones the number can be up to 2500. Egg stage changes with temperature, usually lasts 1-2 weeks. Larvae of clearwing moths in China are usually active from April to September. The larvae are mainly endophagous in the twig, stems and/or roots of woody plants, such as Ulmaceae (*Ulmus* Linn.), Salicaceae (*Populus* Linn.), Vitaceae (*Vitis* Linn.) and Fagaceae (*Quercus* Linn.). We can find larvae through exudation of sawdust and frass, or by the withering of host plants. But we usually cannot identify whether the plants are damaged externally (ŠPATENKA *et al.*, 1999).

The clearwing moths usually pupate in the galls in their host plants, with or without the formation of a cocoon. Some species pupate outside their host plants. Depending on the surrounding

temperature, the pupation stage can last 1-5 weeks. The host plants damaged by larva of clearwing moths will cease to grow or wither to death.

The literature on clearwing moths in China is relatively dispersed. Some researchers have just given the rough number of the genera and species in China, but provided no detailed catalogue or checklist. HUA (2005) listed 77 Chinese species in 22 genera of this family, but some species were misplaced. The aim of the present work is to provide a detailed checklist of the genera and species of clearwing moths in China based on the research of the scientific literature and some specimens in our collection. A total of 108 species in 26 genera are given, with the available information on distribution and host plants included.

Sesiidae Boisduval, 1828
Eur. Lepid. Index meth.: 29.

Sesiinae Boisduval, 1828
Eur. Lepid. Index meth.: 29.

Type-genus: *Sesia* Fabricius, 1775, *Syst. Ent.*: 547

Aegeriinae Stephens, 1828, *Ill. Br. Ent. (Haustellata)*: 136.

Type-genus: *Aegeria* Fabricius, 1807, *Magazin Insektenk. (Illiger)*, 6: 288.

Melittiinae Le Cerf, 1917, in Oberthür, *Étud. Lépid. comp.*, 14: 148.

Type-genus: *Melittia* Hübner, [1819], *Verz. bekannter Schmett.*: 128.

Paranthreninae Niculescu, 1964, *Linn. belg.*, 3: 38.

Type-genus: *Paranthrene* Hübner, [1819], *Verz. bekannter Schmett.*: 128.

Synanthedoninae Niculescu, 1964, *Linn. belg.*, 3: 34.

Type-genus: *Synanthedon* Hübner, [1819], *Verz. bekannter Schmett.*: 129.

Synanthedon Hübner, [1819]
Verz. bekannter Schmett.: 129.

Type-species: *Sphinx oestriformis* Rottensburg, 1775, *Naturforscher, Halle*, 7: 109, by subsequent designation by Newman, 1840, in Westwood, *Introd. mod. Classif. Insects*, 2: 89 [= *Sphinx vespiformis* Linnaeus, 1761].

(= *Conopia* Hübner, [1819], *Verz. bekannter Schmett.*: 129)

Type-species: *Sphinx stomoxiformis* Hübner, 1790, *Beitr. Gesch. Schmett.*, 2(4): 93, pl. (4)3, fig. P, by subsequent designation by Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, 2: 376.

(= *Aegeria* Fabricius, 1807, *sensu* Curtis, 1825, *Br. Ent.*, 2: 53)

(= *Pyrrhotaenia* Grote, 1875, *Can. Ent.*, 7: 174)

Type-species: *Aegeria floridensis* Grote, 1875, *Can. Ent.*, 7: 174, by monotypy.

(= *Vespa mima* Beutenmüller, 1894, *Bull. Am. Mus. nat. Hist.*, 6: 87)

Type-species: *Bembecia sequoiae* Edwards, 1881, *Papilio*, 1: 181, by original designation.

(= *Sanninoidea* Beutenmüller, 1896, *Bull. Am. Mus. nat. Hist.*, 8: 126)

Type-species: *Aegeria exitiosa* Say, 1823, *J. Acad. nat. Sci. Philad.*, 3: 216, by subsequent designation by Beutenmüller, 1901, *Mem. Am. Mus. nat. Hist.*, 1(6): 266.

(= *Thamnosphecia* Spuler, 1910, in Hoffmann, *Schmett. Eur.*, 2: 308)

Type-species: *Sphinx culiciformis* Linnaeus, 1758, *Syst. Nat. (Edn. 10)* 1: 493, by original designation.

(= *Sylvora* Engelhardt, 1946, *Bull. U. S. natn. Mus.*, 190: 6, 77)

Type-species: *Trochilium acerni* Clemens, 1860, *Proc. Acad. nat. Sci. Philad.*, 1860: 14, by original designation.

(= *Tipulia* Králiek & Povolný, 1977, *Vst. sl. Spol. zool.*, 41: 82)

Type species: [*Sphinx*] *tipuliformis* Clerck, 1759, *Icon. Insect. rariorum*, 1: pl. 9, fig. 1, by original designation.

1. *Synanthedon moganensis* Yang & Wang, 1992

Synanthedon moganensis Yang & Wang, 1992, *J. Zhejiang Forest. College*, **9**(4): 418.
Distribution: China (Zhejiang).

2. *Synanthedon kunmingensis* Yang & Wang, 1989
Synanthedon kunmingensis Yang & Wang, 1989, *Zool. Res.*, **10**(2): 133.
Distribution: China (Yunnan).

3. *Synanthedon sassafras* Xu, 1997
Synanthedon sassafras Xu, 1997, *Acta Agric. Boreali sin.*, **6**(4): 1.
Host Plant: *Sassafras tzum* (Hemsl.) Hemsl.
Distribution: China (Jiangxi, Hunan).

4. *Synanthedon jinghongensis* Yang & Wang, 1989
Synanthedon jinghongensis Yang & Wang, 1989, *Zool. Res.*, **10**(2): 134.
Distribution: China (Yunnan).

5. *Synanthedon menglaensis* Yang & Wang, 1989
Synanthedon menglaensis Yang & Wang, 1989, *Zool. Res.*, **10**(2): 135.
Distribution: China (Yunnan).

6. *Synanthedon ulmicola* Yang & Wang, 1989
Synanthedon ulmicola Yang & Wang, 1989, *Zool. Res.*, **10**(2): 136.
Host Plant: *Ulmus pumila* Linn.
Distribution: China (Liaoning, Ningxia).

7. *Synanthedon castanevora* Yang & Wang, 1989
Synanthedon castanevora Yang & Wang, 1989, *Forest. Res.*, **2**(3): 229.
Host Plant: *Castanea mollissima* Bl.
Distribution: China (Hebei).

8. *Synanthedon heilongjiangana* Zhang, 1987
Synanthedon heilongjiangana Zhang, 1987, *North. Hortic.*, **2**: 24.
Host Plant: *Glycine max* (Linn.) Merr.
Distribution: China (Heilongjiang).

9. *Synanthedon hunanensis* Xu & Liu, 1992
Synanthedon hunanensis Xu & Liu, 1992, in Peng & Liu, *Iconogr. Forest Ins. Hunan China*: 729.
Distribution: China (Hunan).

10. *Synanthedon tipuliformis* (Clerck, 1759)
[*Sphinx*] *tipuliformis* Clerck, 1759, *Icon. Insect. rariorum*, pl. 4.
Sesia tipuliformis Fabricius, 1775, *Syst. Ent.*: 549.
Trochilium tipuliformis: Leech, 1815, in Brewster, *Edinburgh Encycl.*, **9**: 131.
Bembecia tipuliformis: Hübner, [1819], *Verz. bekannter Schmett.*: 129.
Aegeria tipuliformis: Stephens, 1828, *Ill. Br. Ent. (Haustellata)*, **1**: 142.
Synanthedon tipuliformis: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 384.
Ramosia tipuliformis: Engelhardt, 1946, *Bull. U. S. natn. Mus.*, **190**: 41.
Synanthedon tipuliformis: Yang & Wang, 1989, *Plant Protection*, **15**(1): 52.
Host Plants: *Ribes nigrum* Linn., *Ribes fufum* Linn., *Ribes alpestre* Wall., *Corylus heterophylla* Fisch. & Trautv., *Sabina chinensis* (Linn.) Ant.
Distribution: China (Heilongjiang), Europe, New Zealand, N. America.

11. *Synanthedon hongye* Yang, 1977
Synanthedon hongye Yang, 1977, *Moths of north China*, (1): 122.
 Distribution: China (Beijing).
12. *Synanthedon culiciformis* (Linnaeus, 1758)
Sphinx culiciformis Linnaeus, 1758, *Syst. Nat. Ed.*, **10**(1): 493.
Sesia culiciformis: Fabricius, 1775, *Syst. Ent*: 549.
Sphinx culex Retzius, 1783, *Gen. Spec. Ins.*: 33.
Aegeria culiciformis: Stephens, 1828, *Ill. Br. Ent.* (Haustellata)., **1**: 143.
Sesia culiciformis var. *americana* Beutenmüller, 1896, *Bull. Am. Mus. nat. Hist*, **8**: 136.
Synanthedon culiciformis: Dalla & Strand, 1925, *Lepid. Cat.*, **31**: 19.
 Host Plants: *Alnus* Miller, *Betula* Linn.
 Distribution: China (N. China), Korea, Europe, Russia, Balkans, Russia (Far East), Kazakhstan, S. Africa, N. America, Canada.
13. *Synanthedon scoliaeformis* (Borkhausen, 1789)
Sphinx scoliaeformis Borkhausen, 1789, *Naturgesch. Eur. Schmett.*, **2**: 173.
Sesia thynniformis Laspeyres, 1801, *Ses. Eur.*: 21.
Sesia emphytiiformis Herrich-Schäffer, 1846, *Syst. Bearb. Schmett. Eur.*: 75.
Sesia scoliiiformis Staudinger, 1856, *Stettin. ent. Ztg.*, **17**: 199.
Sesia deserta Staudinger, 1887, in Romanoff, *Mém. Lepid.*, **3**: 166.
Synanthedon danieli Căpușe, 1973, *Reichenbachia*, **14**(15): 108.
 Host Plant: *Betula* sp.
 Distribution: China (Helongjiang), Europe, Russia, Kazakhstan, Transbaikalia.
14. *Synanthedon bicingulata* Staudinger, 1887
Synanthedon bicingulata Staudinger, 1887, in Romanoff, *Mém. Lépid.*, **3**: 165.
 Host Plants: *Padus maalkii* (Rupr.) Kom., *Malus* Milli.
 Distribution: China (Beijing, Heilongjiang), Korea, Russia (Far East).
15. *Synanthedon leucocyanea* Zukowsky, 1929
Synanthedon leucocyanea Zukowsky, 1929, *Int. Ent. Z.*, **23**: 20.
 Distribution: China (S. China).
16. *Synanthedon serica* (Alphéraky, 1882)
Sesia serica Alphéraky, 1882, *Horae Soc. ent. ross.*, **17**: 21.
Synanthedon serica: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 388.
 Distribution: China (N. W. China), Kazakhstan.
17. *Synanthedon moupinicola* Dalla Torre & Strand 1925
Synanthedon moupinicola Dalla Torre & Strand, 1925, *Lepid. Cat*, **31**: 30.
 Distribution: China (Tibet), Vietnam.
18. *Synanthedon auripes* (Hampson, 1892)
Ichneumenoptera auripes Hampson, 1892, *Fn. Brit. India Moth*, **1**: 194.
Conopia auripes: Hampson, 1919, *Novit. zool.*, **26**: 76.
Synanthedon auripes: Dalla Torre & Strand, 1925, *Lepid. Cat.*, **31**: 118.
 Distribution: China (Guangdong), India.
19. *Synanthedon unocingulata* Bartel, 1912
Synanthedon unocingulata Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 383.

- Conopia unocingulata*: Hampson, 1919, *Novit. zool.*, **26**: 75.
Synanthedon haitangwora Yang, 1977, *Moths of north China*, (1): 123.
 Host Plants: *Malus micromalus* Makino, *Malus pumila* Mill., *Prunus persica* var. *nectarina*.
 Distribution: China (Beijing, Tianjin, Hebei, Henan, Liaoning), Japan.
20. *Synanthedon concavifascia* Le Cerf, 1916
Synanthedon concavifascia Le Cerf, 1916, in Oberthür, *Étud. Lép. comp.*, **12**: 12.
 Distribution: China (Guangdong), Indonesia, Java.
21. *Synanthedon melli* (Zukowsky, 1929)
Aegeria melli Zukowsky, 1929, *Int. Ent. Z.*, **23**: 34.
Synanthedon auriplena: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 32.
 Distribution: China (S. China).
22. *Synanthedon howqua* (Moore, 1877)
Aegeria howqua Moore, 1877, *Ann. Mag. Nat. Hist.*, (4) **20**: 83.
Conopia howqua: Hampson, 1919, *Novit. zool.*, **26**: 75.
Synanthedon auriplena: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 31.
 Distribution: China (Shanghai).
23. *Synanthedon hector* (Butler, 1878)
Aegeria hector Butler, 1878, *Illustr. typical Specimens Lepid. Heterocera Colln Br. Mus.*, **2**: 60.
Conopia hector: Hampson, 1919, *Novit. zool.*, **26**: 75.
Synanthedon hector: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 383.
 Host Plant: *Malus pumila* Mill.
 Distribution: China (Jilin), Korea, Japan.
24. *Synanthedon auriplena* (Walker, 1964)
Aegeria auriplena Walker, 1964, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 13.
Sesia auriplena: Boisduval, 1874, *Hist. Nat. Lep. Het.*, **1**: 459.
Conopia auriplena: Hampson, 1919, *Novit. zool.*, **26**: 71.
Synanthedon auriplena: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 29.
 Distribution: China (Guangdong), New Guinea, Sulawesi.
25. *Synanthedon mushana* (Matsumura, 1931)
Conopia mushana Matsumura, 1931, *6000 Illustr. Insects Japan-Empire*: 1014.
Synanthedon mushana: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 32.
 Distribution: China (Taiwan).
26. *Synanthedon sodalis* Püngeler, 1912
Synanthedon sodalis Püngeler, 1912, in Bartel, *Gross-Schmett. Erde*, **2**: 383.
 Distribution: China (Tibet).
27. *Synanthedon tenuis* (Butler, 1878)
Aegeria tenuis Butler, 1878, *Illustr. typical Specimens Lepid. Heterocera Colln Br. Mus.*, **2**: 60.
Conopia chosensis Matsumura, 1931, *6000 Illustr. Insects Japan-Empire*: 1013.
Synanthedon tenuis: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 383.
 Distribution: China (Heilongjiang), Korea, Japan, Russian (Far East).
28. *Synanthedon hippophae* Xu, Jin & Liu, 1997
Synanthedon hippophae Xu, Jin & Liu, 1997, *Holarctic Lepid.*, **4**(2): 77.

Host Plant: *Hippophae* sp.
Distribution: China (Qinghai).

Sphecosesia Hampson, 1910
J. Bombay Soc. Nat. Hist., **20**: 93.

Type species: *Sphecosesia pedunculata* Hampson, 1910, *J. Bombay Soc. Nat. Hist.*, **20**: 93, pl. F, fig. 14, by original designation.

29. *Sphecosesia lushanensis* Xu & Liu, 1999
Sphecosesia lushanensis Xu & Liu, 1999, *Acta Agric. Boreali sin.*, **8**(2): 3.
Distribution: China (Jiangxi).

30. *Sphecosesia litchivora* Yang & Wang, 1989
Sphecosesia litchivora Yang & Wang, 1989, *For. Res.*, **2**(3): 230.
Host Plants: *Litchi chinensi* Sonn., *Euphoria longan* Lour.
Distribution: China (Hainan).

31. *Sphecosesia nonggangensis* Yang & Wang, 1989
Sphecosesia nonggangensis Yang & Wang, 1989, *For. Res.*, **2**(3): 232.
Distribution: China (Guangxi).

Trilochana Moore, 1879
Descr. new Indian lepid. Insects Colln late Mr. W.S. Atkinson (1): 9.
Type species: *Trilochana scolioides* Moore, 1879, in Hewitson & Moore, *Descr. new Indian lepid. Insects Colln late Mr. W.S. Atkinson* (1): 10, pl. 2, fig. 2, by monotypy.
(= *Scoliomima* Butler, 1885, *Trans. ent. Soc. Lond.*, **1885**: 371)
Type species: *Scoliomima insignis* Butler, 1885, *Trans. ent. Soc. Lond.*, **1885**: 371, by monotypy.

32. *Trilochana caseariae* Yang & Wang, 1989
Trilochana caseariae Yang & Wang, 1989, *For. Res.*, **2**(3): 233.
Host Plant: *Crocussativus* Linn.
Distribution: China (Guangxi).

Melittia Hübner, [1819]
Verz. bekannter Schmett.: 128.
Type species: *Sphinx bombylifformis* Stoll, 1872, in Cramer, *Uitlandsche Kapellen (Papillons exot.)*, **4**: 241, 248, pl. 400, fig. C, by monotype [= *Melittia anthedoniformis* Hübner, [1819]].
(= *Eumallopoda* Wallengren, 1858, *Öfvers. K. Vetensk-Akad. Förh Stockh.*, **15**: 84)
Type species: *Eumallopoda laniremis* Wallengren, 1858, *Öfvers. K. Vetensk-Akad. Förh Stockh.*, **15**: 84, by original designation.
(= *Parasa* Wallengren, 1863, *Wien. ent. Monatschr.*, **7**: 137)
Type species: *Parasa aureosquamata* Wallengren, 1858, *Wien. ent. Monatschr.*, **7**: 137, by monotypy. A junior homonym of *Parasa* Moore, [1860], *Cat. lepid. Insects Mus. nat. Hist. East-India House*, **2**: 413.
(= *Pansa* Wallengren, 1865, *K. svenska VetenskAkad Handl. (N. F.)*, **5**(4): 9)
Type species: *Parasa aureosquamata* Wallengren, 1858, *Wien. ent. Monatschr.*, **7**: 137, by monotypy.
(= *Poderis* Boisduval, [1875], in Boisduval & Guenée, *Hist. nat. Insectes*, **1**: 468)
(= *Premelittia* Le Cerf, 1916, in Oberthür, *Étud. Lepid. comp.*, **12**(1): 9)
Type species: *Premelittia rufescens* Le Cerf, 1916, in Oberthür, *Étud. Lepid. comp.*, **12**(1): 9; by monotypy.

33. *Melittia bombylifformis* (Cramer, 1782)

Sphinx bombylifformis Cramer, 1782, *Papillons exot.*, **4**: 241.

Melittia bombylifformis: Walker, 1856, *List. Specimens lepid. Insects Colln Br. Mus.*, **8**: 69.

Host Plant: *Trichosanthes kirilowii* Maxim.

Distribution: China (Hebei, Jiangxi, Shandong, Taiwan), Japan, India, Indonesia.

34. *Melittia eurytion* (Westwood, 1848)

Trochilium eurytion Westwood, 1848, *Cab. Orient. Ent.*: 62.

Melittia eurytion: Walker, 1856, *List. Specimens lepid. Insects Colln Br. Mus.*, **8**: 70.

Distribution: China (Guangdong, Sichuan, W. China), India, Nepal, Sikkim, Burma, Thailand, Vietnam, Cambodia, Malaysia, Indonesia, Philippines, Moluccas, Java.

35. *Melittia formosana* Matsumura, 1911

Melittia formosana Matsumura, 1911, *6000 Illust. Insects Japan-Empire, Suppl.*, **3**: 86.

Distribution: China (Taiwan), Japan.

36. *Melittia indica* Butler, 1874

Melittia indica Butler, 1874, *Ann. Mag. nat. Hist.*, (4): 411.

Distribution: China, India.

37. *Melittia sangaica* Moore, 1877

Melittia sangaica Moore, 1877, *Trans. ent. Soc. London*, 1890: 84.

Distribution: China (Shanghai, C. China).

38. *Melittia gigantea* (Moore, 1879)

Melittia gigantea Moore, 1879, *Proc. zool. Soc. Lond.*: 413.

Melittia humerosa Swinhoe, 1892, *Cat. Lepid. Het. Mus. Oxford*, **1**: 38.

Distribution: China (N. China, C. China), Japan, Korea, India.

39. *Melittia japona* Hampson, 1919

Melittia japona Hampson, 1919, *Novit. zool.*, **26**: 91.

Distribution: China (Taiwan), Japan, Korea.

Sesia Fabricius, 1775

Syst. ent.: 547.

Type species: [*Sphinx*] *apiformis* Clerck, 1759, *Icon. Insect. rariorum*, **1**: pl. 9, fig. 2, by subsequent designation by Latreille, 1810, *Considérations générales sur l'Ordre naturel des Animaux*: 440.

(= *Trochilium* Scopoli, 1777, *Intr. Hist. nat.*: 414)

Type species: [*Sphinx*] *apiformis* Clerck, 1759, *Icon. Insect. rariorum*, **1**: pl. 9, fig. 2, by subsequent designation by Curtis, 1831, *Br. Ent.*, **8**: 372.

(= *Aegeria* Fabricius, 1807, *Mag. Insektenk. (Illiger)*, **6**: 288)

Type species: [*Sphinx*] *apiformis* Clerck, 1759; by subsequent designation by Westwood, 1840, *Introd. mod. Classif. Insects*, **2**: 89

(= *Setia* Oken, 1815, *Oken's Lehrbuch Naturgesch.*, **3**(1): 745)

40. *Sesia huaxica* Xu, 1995

Sesia huaxica Xu, 1995, *For. Res.*, (8): 6.

Host Plant: *Populus* Linn.

Distribution: China (Guizhou).

41. *Sesia solitera* Špatenka & Arita, 1992
Sesia solitera Špatenka & Arita, 1992, *Tyô Ga*, **43**: 103.
 Distribution: China (Qinghai).
42. *Sesia siningensis* (Xu, 1981)
Sphecia siningensis Xu, 1981, *Scientia silv. sin.*, **2**: 181.
Sesia siningensis: Špatenka *et al.*, 1993, *Nachr. ent. Ver. Apollo (N. F.)*, **14**: 88.
 Host Plant: *Populus* Linn.
 Distribution: China (Qinghai).
43. *Sesia oberthueri* (Le Cerf, 1914)
Aegeria oberthueri Le Cerf, 1914, *Bull. Soc. ent. France*, **1914**: 422.
Aegeria oberthüri Le Cerf, 1914, *Bull. Soc. ent. France*, **1914**: 422. (misspelling)
Sesia oberthuri: Dalla & Strand, 1925, *Lepid. Cat.*, **31**: 123.
 Distribution: China (Jilin).
44. *Sesia przewalskii* (Alphéraky, 1882)
Trochiilium przewalskii Alphéraky, 1882, *Horae Soc. ent. ross.*, **17**: 18.
Sesia przewalskii: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 378.
 Distribution: China (Xinjiang, Kuldja), Kazakstan, Tajikistan, Kyrgyzstan, Korea Japan.
45. *Sesia sheni* Arita & Xu, 1994
Sesia sheni Arita & Xu, 1994, *Tinea*, **14**: 61.
 Distribution: China (Jiangsu).
46. *Sesia gloriosa* (Le Cerf, 1914)
Sphecia gloriosa Le Cerf, 1914, *Bull. Soc. ent. France.*: 421.
Sphecia mandarina Le Cerf, 1916, in Oberthür, *Étud. Lep. Comp.*, **12**(1): 13
Sesia gloriosa: Hampson, 1919, *Novit. zool.*, **26**: 81.
 Distribution: China (Tibet).
47. *Sesia tibetensis* Arita & Xu, 1994
Sesia tibetensis Arita & Xu, 1994, *Tyô to Ga*, **45**: 193.
 Distribution: China (Jiangsu).
48. *Sesia rhynchioides* (Butler, 1881)
Sphecia rhynchioides Butler, 1881, *Trans. ent. Soc. London.*, **1881**: 589.
Aegeria rhynchioides: Hampson, 1919, *Novit. zool.*, **26**: 81.
Sesia rhynchioides: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 28.
Scasiba rhynchioides: Xu, 1994, *Acta Agric. Boreali sin.*, **3**(4): 2.
 Host Plants: *Castanea mollissima* Bl., *Quercus* Linn.
 Distribution: China (Shandong, Hebei), Japan.
- Chamaesphecia* Spuler, 1910
In Hofmann, 1910, *Schmett. Eur.*, **2**: 311.
 Type species: *Sphinx empiformis* Esper, 1783, *Eur. Schmett.*, **2**: 215, pl. 32, figs 1-2, by original designation.
 (= *Scopulosphecia* Laštůvka, 1990, *Acta Univ. Agric. Brno. Fac. Agron.*, **36**(1998): 99)
 Type species: *Sphinx alysonyformis* Herrich-Schäffer, 1846, *Syst. Bearb. Schmett. Eur.*, **2**: 73, pl. 8, fig. 46, by original designation.

49. *Chamaesphracia schroederi* Toševski, 1993*Chamaesphracia schroederi* Toševski, 1993, *Entomofanua*, **14**(26): 422.Host Plant: *Euphorbia linifolia* Linn.

Distribution: China (Inner Mongolia).

50. *Chamaesphracia astatifformis* (Herrich-Schäffer, 1845)*Sesia astatifformis* Herrich-Schäffer, 1845, *Syst. Bearb. Schmett. Eur.*, **2**: 70.*Aegeria astatifformis*: Walker, 1856, *List. Specimens lepid. Insects Colln Br. Mus.*, **8**: 35.*Chamaesphracia astatifformis*: Spuler, 1910, *Schmett. Eur.*, **2**: 312.

Distribution: China (Xinjiang), Hungary, Romania, Bulgaria, Portugal, Spain, Australia.

51. *Chamaesphracia colochelyna* Bryk, 1947*Chamaesphracia colochelyna* Bryk, 1947, *Opusc. ent.*, **12**: 98.

Distribution: China (Jiangsu).

Pyropteron Newman, 1832*Ent. Mag.*, **1**(1): 75.Type species: *Sphinx chrysidiformis* Esper, 1782, *Eur. Schmett.* (Fortsetzung), **2**: 210, pl. 30, fig. 3, by monotypy.(= *Pyropteron* Agassiz, 1846, *Nom. zool.*, **2**: 319)52. *Pyropteron chrysonera* (Püngeler, 1912)*Chamaesphracia chrysonera* Püngeler, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 309.*Chamaesphracia melanophleps* subsp. of *chrysonera* Zukowsky, 1935, *Int. Ent. Z.*, **29**: 40.*Pyropteron chrysonera*: Căpușe, 1971, *Trav. Mus. Hist. nat. "Gr. Antipa"*, **11**: 266.

Distribution: China, C. Asia.

Bembecia Hübner, [1819]*Verz. bekannter Schmett.*: 128.Type species: *Sphinx ichneumoniformis* [Denis & Schiffermüller], 1775, *Ankündigung syst. Werkes Schmett. Wienergegend*: 44, by subsequent designation by Newman, 1840, in Westwood, *Introd. mod. Classif. Insects*, **2**: 89.(= *Dipsosphracia* Spuler, 1910, in Hofmann, *Schmett. Eur.*, **2**: 316)Type species: *Sphinx ichneumoniformis* [Denis & Schiffermüller], 1775, *Ankündigung syst. Werkes Schmett. Wienergegend*: 44, by original designation.(= *Paradipsosphracia* Căpușe, 1973, *Mitt. münch. ent. Ges.*, **63**: 137)Type species: *Dipsosphracia barbara* Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 390, by original designation.(= *Pseudosphracia* Căpușe, 1973, *Mitt. münch. ent. Ges.*, **63**: 137)Type species: *Dipsosphracia tenebrosa* Püngeler, 1914, *Dt. ent. Z. Iris*, **28**: 53, pl. 3, fig. 11, by original designation.(= *Opacosphracia* Căpușe, 1973, *Mitt. münch. ent. Ges.*, **63**: 137)Type species: *Sesia tengyraeformis* Herrich-Schäffer, 1852, *Syst. Bearb. Schmett. Eur.*, **6**: 47, by original designation.53. *Bembecia sophoracola* Xu & Jin, 1999*Bembecia sophoracola* Xu & Jiu, 1999, *Acta Agric. Boreali sin.*, **8**(1): 9.Host Plant: *Sophora flavescens* var. *galeoides* (Pall.) DC.

Distribution: China (Ningxia).

54. *Bembecia hedysari* Yang & Wang, 1994
Bembecia hedysari Yang & Wang, 1994, *J. Northw. For. Coll.*, **9**(3): 31.
 Host Plant: *Hedysarum leave* Maxin.
 Distribution: China (Ningxia).

55. *Bembecia scopigera* (Scopoli, 1763)
Sphinx scopigera Scopoli, 1763, *Ent. Carn*: 188.
Vespaegeria scopigera: Esper, 1779, *Eur. Schmett.*, **2**: 129.
Dipsosphecia Scopigera: Schwarz, 1953, *Motyli*, **3**: 92.
Bembecia scopigera: Naumann, 1971, *Bonn. Zool. Monogr.*, **1**: 91.
 Distribution: China (Qinghai).

56. *Bembecia tancrei* (Püngeler, 1905)
Sesia tancrei Püngeler, 1905, *Dt. ent. Z. Iris*, **17**: 269.
Dipsosphecia tancrei: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 394.
Bembecia tancrei: Căpușe, 1973, *Mitt. münch. ent. Ges*, **63**: 141.
 Distribution: China (Xinjiang).

57. *Bembecia ceiformis* (Staudinger, 1881)
Sesia ceiformis Saudinger, 1881, *Stettin. ent. Ztg.*, **42**: 395.
Dipsosphecia ceiformis: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 394.
Sesia tristis Staudinger 1895, *Dt. ent. Z. Iris*, **8**: 349.
Dipsosphecia hannemanni Căpușe, 1973, *Reichenbachia*, **14**(15): 115.
Dipsosphecia dancaudani Căpușe, 1973, *Reichenbachia*, **14**(15): 119.
Dipsosphecia ili Căpușe, 1973, *Reichenbachia*, **14**(15): 124.
Bembecia ceiformis: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 39.
 Distribution: China (Mongolia).

58. *Bembecia bestianeli* (Căpușe, 1973)
Dipsosphecia bestianeli Căpușe, 1973, *Reichenbachia*, **14**(15): 121.
Bembecia Bestianeli: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 39.
 Distribution: China (Beijing), Russia, Mongolia.

59. *Bembecia lasicera* (Hampson, 1906)
Trochilium lasicera Hampson, 1906, *Proc. zool. Soc. Lond.*, **1906**: 495.
Dipsosphecia lasicera: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 394.
Euhagena lasicera: Hampson, 1919, *Novit. zool.*, **26**: 64.
Bembecia lasicera: Špatenka *et al.*, 1993, *Nachr. ent. Ver. Apollo (N. F.)*, **14**: 99.
 Distribution: China (Tibet).

60. *Bembecia viguraea* (Püngeler, 1912)
Dipsosphecia viguraea Püngeler, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 394.
Dipsosphecia auricaudata Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 393.
Bembecia viguraea: Špatenka *et al.*, 1993, *Nachr. ent. Ver. Apollo (N. F.)*, **14**: 101.
 Distribution: China (Xinjiang), Kazakhstan, Kyrgyzstan, Tajikistan, Turkestan.

61. *Bembecia insidiosa* (Le Cerf, 1911)
Sesia insidiosa Le Cerf, 1911, *Bull. Soc. ent. Fr.*, **1911**: 93.
Bembecia insidiosa: Špatenka *et al.*, 1993, *Nachr. ent. Ver. Apollo (N. F.)*, **14**: 99.
 Distribution: China (W. China).

Scalarignathia Căpușe, 1973

Reichenbachia, **14**(5): 112.

Type species: *Scalarignathia kaszabi* Căpușe, 1973, *Reichenbachia*, **14**(5): 114, pl. 2, pl. 8, figs. C-F, by original designation.

62. *Scalarignathia kaszabi* Căpușe, 1973

Scalarignathia kaszabi Căpușe, 1973, *Reichenbachia*, **14**(5): 114.

Distribution: China (Qinghai, Ningxia), Mongolia.

63. *Scalarignathia sinensis* (Hampson, 1919)

Monopetalotaxis sinensis Hampson, 1919, *Novit. zool.*, **26**: 59.

Scalarignathia sinensis: Špatenka *et al.*, 1993, *Nachr. ent. Ver. Apollo (N. F.)*, **14**: 101.

Distribution: China (Shanghai, Fujian).

Scasiba Matsumura, 1931

6000 *Illust. Insects Japan-Empire*: 1017.

Type species: *Scasiba taikanensis* Matsumura, 1931, 6000 *Illust. Insects Japan-Empire*: 1017, fig. 1867, by monotypy.

64. *Scasiba caryavora* Xu, 1994

Scasiba caryavora Xu, 1994, *Acta Agric. Boreali sin.*, **3**(4): 2.

Host Plants: *Carya illinoensis* Koch., *Castanea mollissima* Bl., *Quercus* Linn.

Distribution: China (Jiangsu, Shandong, Hunan).

65. *Scasiba taikanensis* Matsumura, 1931

Scasiba taikanensis Matsumura, 1931, 6000 *Illust. Insects Japan-Empire*: 1017, fig. 1867.

Distribution: China (Taiwan).

Zhuosesia Yang, 1977

Moths of north China, (1): 121.

Type species: *Zhuosesia zhuoxiana* Yang, 1977, *Moths of north China*, (1): 121, pl. 4, fig. 3, by original designation.

66. *Zhuosesia zhuoxiana* Yang, 1977

Zhuosesia zhuoxiana Yang, 1977, *Moths of north China*, (1): 121.

Distribution: China (Hebei).

Toleria Walker, [1865]

List. Specimens lepid. Insects Colln Br. Mus., **31**: 19.

Type species: *Toleria abiaeformis* Walker, 1965, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 20, by monotypy.

(= *Chimaerosphacia* Strand, 1916, *Arch. Anturgesch.*, **81**(A)8: 46).

Type species: *Chimaerosphacia aegerides* Strand, 1916, *Arch. Anturgesch.*, **81**(A)8: 46, by monotypy.

(= *Glossosphacia* Hampson, 1919, *Novit. zool.*, **26**: 83).

Type species: *Sphacia contaminata* Butler, 1878, *Illust. typical Specimens Lepid. Heterocera Colln Br. Mus.*, **2**: 59, pl. 40, fig. 2, by original designation.

(= *Cissuvora* Engelhardt, 1946, *Bull. U.S. natn. Mus.*, **190**: 6, 134).

Type species: *Cissuvora ampelopsis* Engelhardt, 1946, *Bull. U.S. natn. Mus.*, **190**: 134, pl. 2, fig. 16, by original designation.

67. *Toleria abiaeformis* Walker, 1864

Toleria abiaeformis Walker, 1864, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 20.

Sphecia sinensis Walker, 1965, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 1.

Chimaerosphecia aegerides Strand, [1916], *Arch. Naturg.* **81**(A): 46.

Aegeria sangaica Zukowsky, 1932, *Int. ent. Z.*, **26**: 316.

Chimaerosphecia colochelyma, Bryk, 1947, *Opusc. ent.*, **12**: 98.

Distribution: China (N. China, Hongkong).

68. *Toleria sinensis* (Walker, 1864)

Sphecia sinensis Walker, 1864, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 1.

Toleria sinensis: Hampson, 1916, *Novit. zool.*, **26**: 79.

Distribution: China (Hongkong).

Macroscylesia Hampson, 1919

Novit. zool., **26**: 84.

Type-species: *Melittia longipes* Moore, 1877, *Ann. Mag. nat. Hist.*, (4) **20**: 86, by original designation.

69. *Macroscylesia longipes* (Moore, 1877)

Melittia longipes Moore, 1877, *Ann. Mag. nat. Hist.*, (4) **20**: 84.

Macroscylesia longipes: Hampson, 1919, *Novit. Zool.*, **26**: 84.

Distribution: China (Shanghai, Jiangxi, Fujian), Japan.

Paranthreninae Niculescu, 1964

Linn. belg., **3**: 34.

Type-genus: *Paranthrene* Hübner, [1819], *Verz. bekannter Schmett.*: 128.

Paranthrene Hübner, [1819]

Verz. Bekannt. Schmett.: 128.

Type-species: *Sphinx asiliformis* [Denis & Schiffermüller], 1775, *Ankündigung syst. Werkes Schmett. Wienergegend*: 305, by subsequent designation by Newman, 1840, in Westwood, *Introd. mod. Classif. Insects*, **2**: 89 [= *Sphinx tabaniformis* Rottemburg, 1775].

(= *Memythrus* Newman, 1832, *Sphinx vespiformis: an Essay*: 53)

Type-species: *Sphinx tabaniformis* Rottemburg, 1775, *Naturforscher, Halle*, **7**: 110, by subsequent designation by Beutenmüller, 1901, *Mem. Am. Mus. nat. Hist.*, **1** (6): 246.

(= *Sciapteron* Staudinger, 1854, *Sesiis agri. berlinensis. Diss. ent.*: 43)

Type-species: *Sphinx asiliformis* [Denis & Schiffermüller], 1775, *Ankündigung syst. Werkes Schmett. Wienergegend*: 305, by subsequent designation by Newman, 1840, in Westwood, *Introd. mod. Classif. Insects*, **2**: 89 [= *Sphinx tabaniformis* Rottemburg, 1775].

(= *Tarsa* Walker, 1856, *List. Specimens lepid. Insects Colln Br. Mus.*, **8**: 61)

Type-species: *Tarsa bombyciformis* Walker, 1856, *List. Specimens lepid. Insects Colln Br. Mus.*, **8**: 61, by monotypy.

(= *Pseudosesia* Felder, 1861, *Sber. Akad. Wiss. Wien.*, **43** (1): 28)

Type-species: *Pseudosesia insularis* Felder, 1861, *Sber. Akad. Wiss. Wien.*, **43** (1): 28, by monotypy.

(= *Fatua* Edwards, 1882, *Papilio*, **2**: 97)

Type-species: *Trochilium denudatum* Harris, 1839, *Am. J. Sci.*, **36**: 310, by original designation.

(= *Sciopteron* Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 376)

(= *Leptocimbicina* Bryk, 1947, *Opusc. ent.*, **12**: 100)

Type species: *Leptocimbicina aurivena* Bryk, 1957, *Opusc. ent.*, **12**: 100, pl. 1, fig. 4, by original designation.

70. *Paranthrene actinidiae* Yang & Wang, 1989*Paranthrene actinidiae* Yang & Wang, 1989, *Forest. Res.*, **2**(3): 234.Host Plant: *Actinidia* Lindl.

Distribution: China (Fujian).

71. *Paranthrene semidiaphana* Zukowaky, 1929*Paranthrene semidiaphana* Zukowaky, 1929, *Int. Ent. Z.*, **23**: 36.

Distribution: China (Guangdong, S. China).

72. *Paranthrene tabaniformis* (Rottemburg, 1775)*Sphinx tabaniformis* Rottemburg, 1775, *Naturforscher, Halle*, **7**: 110.*Sesia tabaniformis*: Lederer, 1852, *Verh. zool.-bot. Ver. Wien*, **3**: 68.*Paranthrene tabaniformis*: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 380.Host Plants: *Salix* Linn., *Polulus* Linn.

Distribution: China (Hebei, Inner Mongolia, Jilin, Heilongjiang, Jiangsu, Zhejiang, Anhui, Shanxi, Henan, Hubei, Hunan, Guangdong, Sichuan, Shannxi, Ningxia, Xinjiang), C & S. Asia, Amurland, Cicili, Finland, Europe.

73. *Paranthrene regalis* (Butler, 1878)*Sciapteron regalis* Butler, 1878, *Illust. typical Specimens Lepid. Heterocera Colln Br. Mus.*, **2**: 60.*Paranthrene regalis*: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 380.Host Plants: *Malus pumila* Mill., *Vitis vinifera* Linn.

Distribution: China (Liaoning, Jiangsu, Zhejiang, Fujian, Jiangxi, Shandong, Henan, Sichuan, Shannxi), Korea, Japan.

74. *Paranthrene bicincta* (Walker, 1864)*Aegeria bicincta* Walker, 1864, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 12.*Sciapteron bicincta*: Butler, 1874, *Ann. Mag. Nat. Hist.*, (4)**14**: 408.*Sesia bicincta*: Boisduval, 1874, *Hist. Nat. Lep. Het.*, **1**: 458.*Paranthrene bicincta*: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 380.*Paranthrene davidi* Le Cerf, 1917, *Étud. Lep. Comp.*, **14**: 259.*Paranthrene iridina* Bryk, 1947, *Opusc. ent.*, **12**: 107.

Distribution: China (Jiangsu, Yunnan, Tibet).

75. *Paranthrene chinensis* (Leech, 1889)*Sciapteron chinensis* Leech, 1889, *Trans. ent. Soc. London.*, **1889**: 121.*Parathrene chinensis*: Hampson, 1919, *Novit. zool.*, **26**: 102.

Distribution: China (Jiangxi, C. China).

76. *Paranthrene pompilus* Bryk, 1947*Paranthrene pompilus* Bryk, 1947, *Opusc. ent.*, **12**: 101.

Distribution: China (Jiangsu).

77. *Paranthrene aurivena* (Bryk, 1947)*Leptocimbicina aurivena* Bryk, 1947, *Opusc. ent.*, **12**: 100.*Paranthrene aurivena*: Naumann, 1971, *Bonn. Zool. Monogr.*, **1**: 74.

Distribution: China (Jiangxi, Hongkong).

78. *Paranthrene chrysoidea* Zukowsky, 1932*Paranthrene chrysoidea* Zukowsky, 1932, *Int. Ent. Z.*, **26**: 317.

Distribution: China (Taiwan).

79. *Paranthrene trizonata* (Hampson, 1900)

Sciapter trizonata Hampson, 1900, *J. Bombay nat. Hist. Soc.*, **13**: 43.

Paranthrene trizonata: Hampson, 1919, *Novit. zool.*, **26**: 104.

Distribution: China (Guangdong), Sikkim.

Cissuvora Engelhardt, 1946

Bull. U. S. Nat. Mus., 190: 134.

Type-species: *Cissuvora aampelopsis* Engelhardt, 1946, *Bull. U. S. Nat. Mus.*, 190: 134, pl. 2, fig. 16, by original designation.

80. *Cissuvora huoshanensis* Xu, 1993

Cissuvora huoshanensis Xu, 1993, *Acta Agric. Boreali sin.*, **2**(1): 7.

Distribution: China (Zhejiang, Anhui).

81. *Cissuvora romanovi* (Leech, 1888)

Sphecia romanovi Leech, 1888, *Proc. zool. Soc. Lond.*, **1888**: 591.

Aegerosphecia romanovi: Hampson, 1919, *Novit. zool.*, **26**: 79.

Sesia romanovi: Heppner *et al.*, 1981, *Smithson. Contr. Zool.*, **314**: 28.

Glossospheica romanovi: Arota *et al.*, 1991, *Lepid. Soc.*, **45**(4): 356.

Cissuvora romanovi: Xu, 1994, *Acta Agric. Boreali sin.*, **3**(2): 11.

Host Plant: *Vitis amurensis* Rupr.

Distribution: China (Hunan).

Nokona Matsumura, 1931

Insecta matsumu., **6**: 7

Type species: *Paranthrene yezonica* Matsumura, 1931, *6000 Illust. Insects Japan- Empire*: 1017, fig. 1866, by original designation [= *Sciapteron regale* Butler, 1878].

82. *Nokona pernix* (Leech, 1888)

Bembecia pernix Leech, 1888, *Proc. zool. Soc. Lond.*: 592.

Chamaesphecia pernix: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 409.

Paranthrene pernix: Hampson, 1919, *Novit. zool.*, **26**: 79.

Nokona pernix: Toševski & Arita, 1992, *Jap. J. Ent.*, **60**(3): 620.

Distribution: China (Beijing, Zhejiang, Shanghai), Japan.

Euhagena Edwards, 1881

Papilio, **1**: 180.

Type-species: *Euhagena nebraskae* Edwards, 1881, *Papilio*, **1**: 181, by monotypy.

(= *Larunda* Edwards, 1881, *Papilio*, **1**: 182)

Type-species: *Larunda solitudo* Edwards, 1881, *Papilio*, **1**: 182, by monotypy [= *Aegeria emphytiformis* Walker, 1856].

(= *Gaea* Beutenmuller, 1896, *Bull. Am. Mus. Nat. Hist.*, **8**: 115)

Type-species: *Larunda solitudo* Edwards, 1881, *Papilio*, **1**: 182, by monotypy.

83. *Euhagena variegata* (Walker, 1864)

Tinthia variegata Walker, 1864, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 24.

Gaea variegata: Hampson, 1919, *Novit. zool.*, **26**: 63.

Euhagena variegata: Heppner, 1981, *Smithson. Contr. Zool.*, **314**: 25.

Distribution: China (Hongkong).

Tinthiinae Le Cerf, 1917

In Oberthür, Étud. Lep. Comp., **14**: 148.

Type-genus: *Tinthia* Walker, 1865, *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 23.

(= *Bembeciinae* Niculescu, 1964, *Linn. Belg.*, **3**: 34)

Type-genus: *Bembecia* Hübner, [1819], *Verz. bekannter Schmett.*: 128.

(= *Zenodoxinae* Mackay, 1968, *Men. ent. Soc. Can.*, **58**: 5)

Type-genus: *Zenodorus* Grote & Robinson, 1868, *Trans. Am. ent. Soc.*, **2**: 183.

Heliodinesesia Yang & Wang, 1989

Forest. Res., **2**(3): 236.

Type species: *Heliodinesesia ulmi* Yang & Wang, 1989, *Forest. Res.*, **2**(3): 236.

84. *Heliodinesesia ulmi* Yang & Wang, 1989

Heliodinesesia ulmi Yang & Wang, 1989, *Forest. Res.*, **2**(3): 236.

Host Plant: *Ulmus* Linn.

Distribution: China (Inner Mongolia, Heilongjiang, Shannxi, Gansu, Ningxia), Russian (Far East).

Pennisetia Dehne, 1850

Stettin. ent. Ztg., **11**: 28.

Type-species: *Pennisetia anomala* Dehne, 1850, *Stettin. ent. Ztg.*, **11**: 28, by monotypy [= *Sesia hylaeiformis* Laspeyres, 1801].

(= *Bembecia* Hübner, [1819], sensu Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 376)

(= *Anthrenoptera* Swinhoe, 1892, *Cat. east. and Austr. Lepid. Heterocera Colln Oxf. Univ. Mus.*, **1**: 35)

Type-species: *Sphecia contracta* Walker, 1856, *List Specimens lepid. Insects Colln Br. Mus.*, **8**: 11, by original designation.

85. *Pennisetia hylaeiformis* (Laspeyres, 1801)

Sesia hylaeiformis Laspeyres, 1801, *Sesia Eur.*: 14.

Bembecia hylaeiformis: Hübner, 1819, *Verz. bekannter Schmett.*: 128.

Pennisetia hylaeiformis: Dehne, 1850, *Stettin. ent. Ztg.*, **11**: 28.

Bembecia hylaeiformis: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 381.

Pennisetia hylaeiformis: Naumann, 1971, *Bonn. Zool. Monogr.*, **1**: 56.

Host Plant: *Rubus* Linn.

Distribution: China (Jilin), Germany.

86. *Pennisetia fixseni* (Leech, 1888)

Sphecia fixseni Leech, 1888, *Proc. zool. Soc. Lond.*, **1888**: 591.

Bembecia Fixseni: Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 381.

Pennisetia fixseni: Xu & Liu, 1993, *Acta Agric. Boreali sin.*, **2**(2): 3.

Distribution: China (Zhejiang), Japan.

Tinthia Walker, [1865]

List. Specimens lepid. Insects Colln Br. Mus., **31**: 23.

Type-species: *Tinthia varipes* Walker, [1865], *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 24, by monotypy.

(= *Soronia* Moore, 1877, *Ann. Mag. nat. Hist.*, (4) **20**: 83)

Type-species: *Soronia cuprealis* Moore, 1877, *Ann. Mag. nat. Hist.*, (4) **20**: 83, by monotypy.

(= *Microsphecia* Bartel, 1912, in Seitz, *Gross-Schmett. Erde*, **2**: 414)

Type-species: *Sphinx tineiformis* Esper, [1793], *Schmett. Eur.*, Suppl. (Abschnitt 2): 9, pl. 38, fig. 4, by original designation.

87. *Tinthia beijingana* Yang, 1977

Tinthia beijingana Yang, 1977, *Moths of north China*, (1): 120.

Distribution: China (Beijing).

88. *Tinthia cuprealis* (Moore, 1877)

Soronia cuprealis Moore, 1877, *Ann. Mag. nat. Hist.*, (4) **20**: 83.

Tinthia cuprealis: Hampson, 1919, *Novit. zool.*, **26**: 116.

Distribution: China (Shandong, Shanghai, Zhejiang).

89. *Tinthia varipes* Walker, [1865]

Tinthia varipes Walker, [1865], *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 24.

Host Plant: *Broussonetia kazinoki* S. & Z.

Distribution: China (Jiangxi, Hunan), Celebes, Asia minor.

90. *Tinthia cupreipennis* (Walker, [1865])

Aegeria cupreipennis Walker, [1865], *List. Specimens lepid. Insects Colln Br. Mus.*, **31**: 11.

Tinthia cupreipennis: Butler, 1874, *Ann. Mag. nat. Hist.*, **4**(14): 409.

Sesia cupreipennis: Boisduval, 1874, *Hist. nat. Lep. Het.*, **1**: 457.

Tinthia cupreipennis: Hampson, 1892, *Fn. Brit. India Moth*, **1**: 199.

Distribution: China (Guangdong), Madras.

Zenodoxus Grote & Robinson, 1868

Trans. Amer. ent. Soc., **2**: 184.

Type species: *Zenodoxus maculipes* Grote & Robinson, 1868.

91. *Zenodoxus rubripectus* Xu & Liu, 1993

Zenodoxus rubripectus Xu & Liu, 1993, *Acta Agric. Boreali sin.*, **2**(2): 3.

Distribution: China (Jiangxi).

92. *Zenodoxus meilinensis* Xu & Liu, 1993

Zenodoxus meilinensis Xu & Liu, 1993, *Acta Agric. Boreali sin.*, **2**(2): 3.

Distribution: China (Jiangxi).

93. *Zenodoxus simifuscus* Xu & Liu, 1993

Zenodoxus simifuscus Xu & Liu, 1993, *Acta Agric. Boreali sin.*, **2**(2): 4.

Distribution: China (Jiangxi).

94. *Zenodoxus tianpingensis* Xu & Liu, 1993

Zenodoxus tianpingensis Xu & Liu, 1993, *Acta Agric. Boreali sin.*, **2**(2): 4.

Distribution: China (Hunan).

95. *Zenodoxus flavus* Xu & Liu, 1992

Zenodoxus flavus Xu & Liu, 1992, in Peng & Liu, *Iconogr. Forest Ins. Hunan China*: 730.

Distribution: China (Hunan).

96. *Zenodoxus fuscus* Xu & Liu, 1992

Zenodoxus fuscus Xu & Liu, 1992, in Peng & Liu, *Iconogr. Forest Ins. Hunan China*: 731.

Distribution: China (Hunan).

97. *Zenodoxus issikii* Yano, 1960

Zenodoxu issikii Yano, 1960, *Kontyû*, **28**: 236.

Distribution: China (Taiwan), Japan.

98. *Zenodoxus taiwanellus* Matsumura, 1931

Zenodoxus taiwanellus Matsumura, 1931, *6000 Illust. Insects Japan-Empire*: 1018.

Distribution: China (Taiwan).

99. *Zenodoxus trifasciatus* Yano, 1960

Zenodoxus trifasciatus Yano, 1960, *Kontyû*, **28**: 237.

Distribution: China (Taiwan), Japan.

Paradoxecia Hampson, 1919

Novit. zool., **26**: 51 (key), 114.

Type species: *Aegeria gravis* Walker, [1865], *List. Specimens lepid. Insects Colln Br. Mus*; by original designation.

100. *Paradoxecia gravis* (Walker, [1865])

Aegeria gravis Walker, [1865], *List. Specimens lepid. Insects Colln Br. Mus.* **31**: 12.

Paranthrene gravis: Butler, 1874, *Ann. Mag. Nat. Hist.*, (**4**)14: 409.

Sesia gravis: Boisduval, 1874, *Hist. nat. Lep. Het.*, **1**: 457.

Paradoxecia gravis: Hampson, 1919, *Novit. zool.*, **26**: 114.

Distribution: China (N. China, C. China).

101. *Paradoxecia pieli* Lieu, 1935

Paradoxecia pieli Lieu, 1935, *Mus. Heude, Notes Ent. Chin.*, **2**: 190.

Host Plants: *Morus alba* Linn, *Salix* Linn.

Distribution: China (Shanxi, Jiangsu, Zhejiang, Jiangxi, Guangdong, Sichuan, Shannxi).

Rectala Bryk, 1947

Opusc. ent., **12**: 103.

Type species: *Rectala asyliiformis* Bryk, 1947, *Opusc. ent.*, **12**: 104, pl. 1, figs. 1-2, by original designation.

102. *Rectala asyliiformis* Bryk, 1947

Rectala asyliiformis Bryk, 1947, *Opusc. ent.*, **12**: 104.

Distribution: China (Jiangsu, Fujian, Jiangxi).

Trichocerota Hampson, [1893]

Fauna Br. India (Moths), **1**: 188 (key), 199.

Type species: *Trichocerota ruficincta* Hampson, [1893], *Fauna Br. India* (Moths), **1**: 199, fig. 126, by original designation.

103. *Trichocerota brachythyra* Hampson, 1919

Trichocerota brachythyra Hampson, 1919, *Novit. zool.*, **26**: 118.

Distribution: China (Guangdong), Celebes.

104. *Trichocerota dizona* Hampson, 1919

Trichocerota dizona Hampson, 1919, *Novit. zool.*, **26**: 117.

Distribution: China (Guangdong), India.

105. *Trichocerota leiaeformis* (Walker, 1856)

Aegeria leiaeformis Walker, 1856, *List. Specimens lepid. Insects Colln Br. Mus.*, **8**: 58.

Tinthia leiaeformis: Butler, 1874, *Ann. Mag. Nat. Hist.*, (4)**14**: 407.

Sesia leiaeformis: Boisduval, 1874, *Hist. Nat. Lep. Het.*, **1**: 409.

Trichocerota leiaeformis: Hampson, 1919, *Novit. zool.*, **26**: 118.

Distribution: China (Shanghai).

Paranthrenopsis Le Cerf, 1911

Bull. Mus. natn. Hist. nat. Paris, **17**: 302.

Type-species: *Paranthrenopsis harmandi* Le Cerf, 1911, *Bull. Mus. natn. Hist. nat. Paris*, **17**: 302, pl. 5, fig. 4, by monotypy.

(= *Entrichella* Bryk, 1947, *Opusc. ent.*, **12**: 102)

Type-species: *Entrichella pogonias* Bryk, 1947, *Opusc. ent.*, **12**: 103, by original designation.

106. *Paranthrenopsis pogonias* (Bryk, 1947)

Entrichella pogonias Bryk, 1947, *Opusc. ent.*, **12**: 103.

Paranthrenopsis pogonias: Naumann, 1971, *Bonn. zool. Monogr.*, **1**: 53.

Distribution: China (Jiangsu).

107. *Paranthrenopsis siniaevi* Gorbunov & Arita, 2000

Paranthrenopsis siniaevi Gorbunov & Arita, 2000, *Tyô Ga*, **51**(3): 247.

Distribution: China (Shaanxi).

Oligophlebiella Strand, 1916

Arch. Naturgeschich., **81**(A) 8: 49.

Type species: *Oligophlebiella polishana* Strand, 1916, *Arch. Naturgeschich.*, **81**(A) 8: 49, by monotypy.

108. *Oligophlebiella polishana* Strand, 1916

Oligophlebiella polishana Strand, 1916, *Arch. Naturgeschich.*, **81**(A) 8: 49.

Distribution: China (Zhejiang, Fujian, Taiwan), Japan, Russia (Far East).

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