An annotated checklist of the chrysidid wasps (Hymenoptera, Chrysididae) from China

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Abstract
An annotated checklist of the Chinese Chrysididae is provided. The list includes 188 species and subspecies in twenty three genera of five subfamilies. Four species are proposed as new combinations: Hedyochridium cupreum asianum (Linsenmaier, 1997), Philoctetes deauratus (Mocsáry, 1914), Ph. mordvilkoi (Semenov-Tian-Shanskij, 1932), and Pseudomalus hypocritus (du Buysson, 1893). Two species are revalidated: Chrysis consobrina Mocsáry, 1889, and Philoctetes mongolicus (du Buysson, 1901). Historical data with comments on the current taxonomic position, and the pictures of sixty five types are also given.

Keywords
Chrysididae, catalogue, new combination, status revived, pictures, China
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Introduction

The Chrysididae, commonly known as cuckoo wasps or goldwasps, are a cosmopolitan family and have the greatest diversity in the Palaeartic Region (Morgan 1984). Based on the most recent investigation, 87 genera and 2509 species have been described worldwide in this family (Aguiar et al. 2013). Cuckoo wasps are parasitoids or cleptoparasites of stick insects, moths, and other wasps, bees and sawflies (Kimsey and Bohart 1991). Kimsey and Bohart (1991) divided this family into four subfamilies (Amiseginae, Chrysidinae, Cleptinae, and Loboscelidinae), while Mocsáry (1889), Linsenmaier (1959), Mingo (1994), and Rosa et al. (2013) considered also Parnopinae as a valid subfamily and we follow the latter taxonomic interpretation.

In 1864 Smith included Stilbum cyanurum (sub splendidum) from China in a table of his paper. This is the first report of the Chrysididae from China. From then on, many articles with occasional descriptions of new species of Chinese chrysidid can be found in the literature (Smith 1874a, 1874b; du Buysson 1887, 1893, 1898a, 1898b, 1898c, 1899, 1900, 1901a, 1904, 1908; Mocsáry 1887, 1889, 1890, 1911, 1912a, 1912b, 1913a, 1913b, 1914; Radoszkowski 1887, 1889, 1891; Semenow 1892; Semenov-Tian-Shansky 1909; Bischoff 1910; Uchida 1927; Semenov-Tian-Shanskij 1932, 1954, 1967; Hammer 1936, 1950; Tsuneki 1947, 1948a, 1950, 1953a, 1970b, 1982; Linsenmaier 1959, 1968, 1997a; Lin 1964; Móczár 1968; Kimsey 1987a, 1987b, 1988, 1995; Rosa 2003; Xu et al. 2003, 2006; Liu et al. 2010, 2011; Yao et al. 2010; Wei et al. 2013; Wei et al. 2014a, 2014b). But these descriptions are scattered and a compositive review of the Chinese Chrysididae is necessary.

The aim of the present checklist is to summarize the taxa previously recorded for China as a base for further research.

Material and methods

The list follows the genera subdivision proposed by Kimsey and Bohart (1991), with few exceptions. The species are listed alphabetically. Type depositories are given mainly according to Kimsey and Bohart (1991). Types examined are asterisked (*) after the type depositories.

The following abbreviations are used in the text: aberr. (aberratio), biol. (biology), cat. (catalogue), cit. (citation), comp. notes (comparative notes), ecol. (ecology), design. (designation), distr. (distribution), ex. (examplar), fig. (figs) (figure (figures)), misid. (misidentification), pl. (pls) (plate (plates)), syn. (synonym), tab. (table), tax. (taxonomy), typ. gen. (typus generis).

Pictures of the types were taken with Nikon D-80 connected to the stereomicroscope Togal SCZ and stacked with the software Combine ZP.

Types and other specimens were deposited in the following institutions:
| Code | Institution |
|------|-------------|
| AEI  | The American Entomological Institute, Gainesville, Florida, USA. |
| BMNH | The Natural History Museum, London, England. |
| CNC  | Hymenoptera Section, Biosystematics Institute, Ottawa, Canada. |
| EIHU | Entomology Institute, Hokkaido University, Hokkaido, Japan. |
| HNHM | Hungarian Naturwissenschaftlichen Museum, Budapest, Hungary. |
| HEC  | Hope Entomological Collections, Oxford University Museum, England. |
| HUSK | Department of Biological Sciences, Faculty of Science, Hanseo University, Seosan, Korea Republic. |
| ISEA-PAS | Invertebrate collections of the Institute of Systematics and Evolution of Animals, Polish Academy of Sciences in Krakow, Poland. |
| KUM  | The Kyushu University Museum, Faculty of Bioresource and Bioenvironmental Sciences and Faculty of Social and Cultural Studies, Fukuoka, Japan. |
| LSL  | Linnean Society of London, England. |
| LZM  | Lund Zoological Museum, University of Lund, Sweden. |
| MHNG | Muséum d’Histoire Naturelle, Genève, Switzerland. |
| MMU  | Zoological Museum, Lomonosov State University Moscow, Russia. |
| MNHN | Muséum National d’Histoire Naturelle, Paris, France. |
| MNHU | Museum für Naturkunde der Humboldt-Universität, Berlin, Germany. |
| MRSN | Museo Regionale di Scienze Naturali, Turin, Italy. |
| MSNG | Museo Civico di Storia Naturale “G. Doria”, Genoa, Italy. |
| MSNM | Museo Civico di Storia Naturale di Milano, Italy. |
| NHMW | Naturhistorisches Museum Wien, Vienna, Austria. |
| NHRS | Swedish Museum of Natural History, Stockholm, Sweden. |
| NIAS | Laboratory of Insect Systematics, National Institute of Agro-Environmental Sciences, Kannondai, Tsukuba, Ibaraki, Japan. |
| NMLS | Natur Museum Luzern, Switzerland. |
| OMNH | Osaka Museum of Natural History, Osaka, Japan. |
| RMNH | Nationaal Natuurhistorisch Museum, Leiden, The Netherlands. |
| SCAU | Department of Entomology, College of Natural Resources and Environment, South China Agricultural University, Guangzhou, China. |
| SMFD | Forschungsinstitut und Museum Senckenberg, Frankfurt am Main, Germany. |
| TARI | Entomology Collection, Taiwan Agricultural Research Institute, Taichung, Taiwan, China. |
| USNM | United States National Museum of Natural History, United States National Entomological Collection, Washington DC, USA. |
| ZIN  | Zoological Institute, St. Petersburg, Russia. |
| ZJUH | Institute of Insect Sciences, University of Zhejiang, Hangzhou, China. |
| ZMU  | Zoological Museum, University of Copenhagen, Denmark. |
Results

I. Taxa from China

Subfamily Cleptinae

1. Genus *Cleptes* Latreille, 1802

1. *Cleptes albonotatus* Wei, Rosa & Xu, 2013
http://species-id.net/wiki/Cleptes_albonotatus

*Cleptes albonotatus* Wei, Rosa & Xu, 2013: 61. Holotype ♀, China: Guangdong: Nanning National Nature Reserve (59 (key), 61 (descr.), 62 (pl. 1), 63 (*satoi* group), 65 (comp. notes), 74 (comp. notes), 75 (comp. notes), depository: SCAU)*.

**Distribution.** China (Guangdong).

2. *Cleptes asianus* Kimsey, 1987
http://species-id.net/wiki/Cleptes_asianus

*Cleptes asianus* Kimsey, 1987b: 56. Holotype ♀, Taiwan: Wushe (56 (descr.), 57 (figs 3, 4, 7), depository: AEI).

*Cleptes asianus*: Kimsey and Bohart 1991: 59 (cat., *orientalis* group); Wei et al. 2013: 56 (tab.), 58 (key), 60 (tax., *asianus* group).

*Cleptes* (*Cleptes*) *asianus*: Móczár 2000: 320 (diagnosis of the *asianus* group; cat.); 322 (key; figs 3–5); 325 (tax., descr.).

**Distribution.** China (Taiwan).

**Remarks.** Móczár (2000) added some morphological characteristics to the original description.

3. *Cleptes eburnecoxis* Wei, Rosa & Xu, 2013
http://species-id.net/wiki/Cleptes_eburnecoxis

*Cleptes eburnecoxis* Wei, Rosa & Xu, 2013: 63. Holotype ♂, China: Zhejiang: Mt. Tianmu, Xianrending (60 (key), 63 (type series: China: Zhejiang: Mt. Tianmu, Xianrending; Guangxi: Longsheng, Huaping National Nature Reserve, descr.), 64 (pl. 2), 65 (*townesi* group), depository: SCAU)*.

**Distribution.** China (Zhejiang, Guangxi).
4. *Cleptes flavolineatus* Wei, Rosa & Xu, 2013
http://species-id.net/wiki/Cleptes_flavolineatus

*Cleptes flavolineatus* Wei, Rosa & Xu, 2013: 65. Holotype ♀, China: Zhejiang: Mt. Tianmu, Xianrending (59 (key), 61 (comp. notes), 65 (descr.), 66 (pl. 3), 67 (*satoi* group), 74 (comp. notes), depository: ZJUH)*.

**Distribution.** China (Zhejiang).

5. *Cleptes helanshanus* Wei, Rosa & Xu, 2013
http://species-id.net/wiki/Cleptes_helanshanus

*Cleptes helanshanus* Wei, Rosa & Xu, 2013: 67. Holotype ♀, China: Inner Mongolia: Mt. Helan (59 (key), 67 (descr.), 68 (pl. 4), 69 (*nitidulus* group), depository: SCAU)*.

**Distribution.** China (Inner Mongolia).

6. *Cleptes mandsuricus* Móczár, 1968
http://species-id.net/wiki/Cleptes_mandsuricus
Plate 1

*Cleptes* (*Holcocleptes*) *mandsuricus* Móczár, 1968: 171. Holotype ♂, China: Manchuria: Erzendjanzsy (171 (descr.), 172 (figs 5–7), depository: NHMW)*.

*Cleptes* (*Holcocleptes*) *mandsuricus*: Móczár 1998: 325 (cat., aerosus group), 329 (key), 332 (figs 12–13), 337 (China: Manchuria: Erzendjanzsy, tax., descr.).

*Cleptes mandsuricus*: Kimsey and Bohart 1991: 61 (China: Manchuria: Erzendjanzsy, cat., *aerosus* group); Kurzenko and Lelej 2007: 1002 (Northeast China, cat.); Wei et al. 2013: 56 (tab.), 60 (key), 69 (Northeast China, tax.).

**Distribution.** China.

**Remarks.** Móczár (1998) added some morphological characteristics to the original description.

7. *Cleptes mareki* Rosa, 2003
http://species-id.net/wiki/Cleptes_mareki

*Cleptes* (* Leiocleptes*) *mareki* Rosa, 2003: 408. Holotype ♀, China: Shanxi: Zhongtiao Shan c. [= Mr. Zhongtiao], 45 km W of Sanmenxia (408 (descr.), 410 (comp. tab.), 411 (figs 1, 2), 412 (figs 3, 4), 413 (figs 5–6), depository: MSNM)*.
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Cleptes (Leiocleptes) mareki: Rosa 2005: 5 (cit.), 6 (cit), 7 (China: Shanxi: Zhongtiao Shan c. [= Mt. Zhongtiao], 45 Km W of Sanmenxia, cat.).

Cleptes mareki: Wei et al. 2013: 56 (tab.), 59 (key), 60 (key), 68 (comp. notes), 70 (China: Shanxi; Gansu: Juquan, Huangnibao, tax., nitidulus group), 71 (pl. 5), 72 (pl. 6), 73 (pl. 7, ♂), 82 (comp. notes).

Distribution. China (Gansu, Shanxi).

Remarks. Wei et al. (2013) added some morphological characteristics to the original description.

8. **Cleptes metallicorpus** Ha, Lee & Kim, 2011

http://species-id.net/wiki/Cleptes_metallicorpus

*Cleptes metallicorpus* Ha, Lee & Kim, 2011: 493. Holotype ♀, Korea: Gangwon-do, Wonju-si, Maeci-ri (489 (cit.), 490 (key; figs 1B, 1H, 1O, 1S), 491 (figs 2D, 2H), 493 (descr.), depository: HUSK).

*Cleptes metallicorpus*: Wei et al. 2013: 59 (key), 70 (China: Guangdong: Nanling National Nature Reserve; Zhejiang: Mt. Tianmu, Xianrending, Mt. Tianmu, Qiliting; Shaanxi: Quing Ling Shan mts, tax., descr.), 73 (pl. 7), 74 (asianus group), 87 (comp. notes), 91 (comp. notes).

Distribution. China (Shaanxi, Zhejiang, Guangdong). Korea (Ha et al. 2011).

9. **Cleptes niger** Wei, Rosa & Xu, 2013

http://species-id.net/wiki/Cleptes_niger

*Cleptes niger* Wei, Rosa & Xu, 2013: 74. Holotype ♀, China: Shaanxi: Mt. Taibai, 1100 m (59 (key), 61 (comp. notes), 65 (comp. notes), 74 (descr.), 75 (pl. 8), 76 (satoi group), depository: SCAU)*.

Distribution. China (Shaanxi).

10. **Cleptes seoulensis** Tsuneki, 1959

http://species-id.net/wiki/Cleptes_seoulensis

*Cleptes seoulensis* Tsuneki, 1959: 13. Holotype ♀, Korea: Keijo (4 (comp. tab.), 6 (key), 13 (descr.), 14 (comp. notes), 17 (figs 8–12), depository: OMNH, not NIAS (Móczár 1998: 340)).

*Cleptes seoulensis*: Kim 1970: 506 (tax.); Kimsey and Bohart 1991: 64 (cat., orientalis group); Ha et al. 2011: 489 (cit.), 490 (key; figs 1C, 1F, 1M, 1T), 491 (figs 2B,
2F), 492 (descr.); Wei et al. 2013: 58 (key), 59 (key), 76 (tax., fudzi group), 77 (descr., pl. 9, ♂), 78 (fudzi group).

*Cleptes (Holcocleptes) seoulensis* Móczár 1998: 325 (fudzi group, cat.), 330 (fig. 9), 331 (key), 332 (figs 14–16), 340 (descr., tax.).

**Distribution.** China (Anhui). Korea (Tsuneki 1959; Kim 1970).

**Remarks.** Móczár (1998) added some morphological characteristics to the original description. Wei et al. (2013) gave the first description of the male.

11. **Cleptes shengi** Wei, Rosa & Xu, 2013

http://species-id.net/wiki/Cleptes_shengi

*Cleptes semiauratus* (Linnaeus, 1758): Sheng et al. 1998: 7 (misid.).

*Cleptes shengi* Wei, Rosa & Xu, 2013: 78. Holotype ♀, China: Jilin: Maoershan National Forest Park (59 (key), 78 (descr.), 79 (pl. 10), 80 (semiauratus group), 93 (comp. notes), depository: SCAU)*.

**Distribution.** China (Jilin).

12. **Cleptes sinensis** Wei, Rosa & Xu, 2013

http://species-id.net/wiki/Cleptes_sinensis

*Cleptes sinensis* Wei, Rosa & Xu, 2013: 81. Holotype ♂, China: Shaanxi: Liping National Forest Park (60 (key), 80 (Type series: China: Shaanxi: Liping National Forest Park; Shaanxi, Mt. Taibai; Shaanxi: Liping National; Shaanxi, Liuba, Mt. Zibo; Hainan: Jianfengling National Nature Reserve; Sichuan: Wolong National Nature Reserve; Hubei: Wufeng, Houhe National Nature Reserve, descr.), 81 (pl. 11, ♂), 83 (nitidulus group), depository: SCAU)*.

**Distribution.** China (Shaanxi, Zhejiang, Hubei, Hainan, Sichuan).

13. **Cleptes sjostedti** Hammer, 1950

http://species-id.net/wiki/Cleptes_sjostedti

Plate 2

*Cleptes Sjöstedti* Hammer, 1950: 2. Holotype ♀, China: Kiangsu [= Jiangsu], (2 (descr.), depository: NHRS)*.

*Cleptes pinicola* Lin, 1959: 205. Holotype ♀, Taiwan: Lien-hwa-chich (205 (descr.), depository: TARI) (synonymised by Móczár 1998).
Cleptes sjostedti: Kimsey and Bohart 1991: 64 (China: Kiangsu [= Jiangsu], cat., orientalis group); Kurzenko and Lelej 2007: 1002 (Jiangsu, cat.); Wei et al. 2013: 56 (tab.), 58 (key), 60 (key), 83 (China: Hunan, Liuyang City; Yunnan: Xiangyun; Zhejiang, Anji; Guangdong: Xinhui; Yunnan, Kunming; Anhui: Ningguo; Zhejiang, Gaozhou, Bamen, tax., descr.), 84 (pl. 12, ♀), 85 (pl. 13, ♂), 86 (fudzi group).

Cleptes (Holcocleptes) sjostedti (!): Móczár 1998: 325 (cat., fudzi group), 332 (key, fig. 19), 340 (tax.), 341 (descr.).

Distribution. China (Jiangsu, Zhejiang, Anhui, Taiwan, Hunan, Guangdong, Yunnan). Korea (Móczár 1998).

Host. Nesodiprion japonica Marlatt (Hymenoptera, Diprionidae) (Lin 1959; Móczár 1998).

Remarks. Móczár (1998) designated the neotype based on the paratype of sjostedti deposited in NHMW. A closer examination of the type material (by Paolo Rosa) has revealed the original holotype in NHRS, thus Móczár’s neotype has consequently been set aside. Cleptes pinicola Lin was not listed in Kimsey and Bohart (1991). Móczár (1998) and Wei et al. (2013) have provided detailed descriptions.

14. Cleptes taiwanus Tsuneki, 1982
http://species-id.net/wiki/Cleptes_taiwanus

Cleptes taiwanus Tsuneki, 1982: 2. Holotype ♀, Taiwan: Pempuchi (2 (descr.), depository: OMNH).

Cleptes taiwanus: Móczár 2000: 320 (cat., asianus group), 321 (fig. 2), 322 (key, fig. 6), 328 (comp. notes), 329 (Taiwan: Nantou Prov., Pempuchi, tax.); Wei et al. 2013: 56 (tab.), 59 (key), 86 (tax., asianus group), 91 (comp. notes).

Distribution. China (Taiwan).

Remarks. Cleptes taiwanus Tsuneki is not listed in Kimsey and Bohart (1991). Móczár (2000) has provided some additions and corrections to the original description.

15. Cleptes tibetensis Wei, Rosa & Xu, 2013
http://species-id.net/wiki/Cleptes_tibetensis

Cleptes tibetensis Wei, Rosa & Xu, 2013: 87. Holotype ♂, Tibet: Pailongxiang, Daxiagu (60 (key), 87 (descr.), 88 (pl. 14), 89 (Asianus group), 91 (comp. notes), depository: SCAU)*.

Distribution. China (Tibet).
16. **Cleptes townesi** Kimsey, 1987
http://species-id.net/wiki/Cleptes_townesi

*Cleptes townesi* Kimsey, 1987b: 58. Holotype ♂, Taiwan: Wushe (58 (descr., figs 2–6), depository: AEI).
*Cleptes townesi*: Kimsey and Bohart 1991: 58 (Taiwan: Wushe, cat., *townesi* group); Móczár 2000: 330 (Taiwan: Wu-feng, tax., descr., *townesi* group); Wei et al. 2013: 56 (tab.), 60 (key), 63 (comp. notes), 89 (China: Zhejiang: Hangzhou; Fujian: Chong’an, Mt. Wuyi, Jiuqu, descr., *townesi* group), 90 (pl. 15, ♂).

**Distribution.** China (Zhejiang, Fujian, Taiwan).

17. **Cleptes villosus** Wei, Rosa & Xu, 2013
http://species-id.net/wiki/Cleptes_villosus

*Cleptes villosus* Wei, Rosa & Xu, 2013: 91. Holotype ♂, China: Guizhou, Suiyang, Kuankuoshui National Nature Reserve (60 (key), 87 (comp. notes), 91 (type series: China: Guizhou: Suiyang, Kuankuoshui National Nature Reserve; Daozhen, Dashahe, Xiannvdong, descr.), 92 (pl. 16), 93 (*asianus* group), depository: SCAU)*.

**Distribution.** China (Guizhou).

**Subfamily Amiseginae**

2. **Genus Magdalium** Kimsey, 1986

18. **Magdalium orchidense** Kimsey, 1995
http://species-id.net/wiki/Magdalium_orchidense

*Magdalium orchidense* Kimsey, 1995: 594. Holotype ♂, Taiwan: Orchid Isl., Batel Tobago (591 (fig. 6), 594 (comp. notes, descr.), depository: CNC).

**Distribution.** China (Taiwan).

3. **Genus Nipponosega** Kurzenko & Lelej, 1994

19. **Nipponosega kurzenkoi** Xu, He & Terayama, 2003
http://species-id.net/wiki/Nipponosega_kurzenkoi

*Nipponosega kurzenkoi* Xu, He & Terayama, 2003: 195. Holotype ♀, China: Zhejiang: Suichang, Mt. Jiulongshan (195 (key, descr.), 196 (figs 1, 2), depository: SCAU)*.

**Distribution.** China (Zhejiang).
Subfamily Loboscelidiinae

4. Genus *Loboscelidia* Westwood, 1874

20. *Loboscelidia guangxiensis* Xu, Weng & He, 2006
http://species-id.net/wiki/Loboscelidia_guangxiensis

*Loboscelidia guangxiensis* Xu, Weng & He, 2006: 208. Holotype ♂, China: Guangxi: Jiuwandashan (208 (descr.), 209 (key, figs 1–6), depository: SCAU)*.

*Loboscelidia guangxiensis*: Liu et al. 2010: 641 (key in Chinese), 645 (key in English); Yao et al. 2010: 526 (China: Guangxi: Jiuwandashan; Guangdong: Nanling National Nature Reserve; Chebaling National Nature Reserve, distr., tax.), 527 (figs 1A–1H), 528 (comp. notes), 533 (key); Kimsey 2012: 6 (key), 16 (comp. notes), 18 (China: Guangxi, Jiuwandashan, tax.), 19 (comp. notes).

**Distribution.** China (Guangdong, Guangxi).

21. *Loboscelidia hei* Liu, Yao & Xu, 2010
http://species-id.net/wiki/Loboscelidia hei

*Loboscelidia hei* Liu, Yao & Xu, 2010: 642. Holotype ♀, China: Fujian, Mt. Meihua (641 (key in Chinese), 642 (descr. in Chinese, figs 1–6), 645 (key and descr. in English), depository: SCAU)*.

**Distribution.** China (Fujian).

22. *Loboscelidia levigata* Yao, Liu & Xu, 2010
http://species-id.net/wiki/Loboscelidia levigata

*Loboscelidia levigata* Yao, Liu & Xu, 2010: 528. Holotype ♂, China: Guangdong: Chebaling National Nature Reserve (526 (cit.), 528 (type series: China: Guangdong: Chebaling National Nature Reserve, Nanling National Nature Reserve; Fujian: Minqing County, Huangchulin Provincial Nature Reserve, descr.), 529 (figs 2A–2H), 533 (key), depository: SCAU)*.

**Distribution.** China (Fujian, Guangdong).
23. *Loboscelidia maai* (Lin, 1964)
http://species-id.net/wiki/Loboscelidia_maai

*Scelidoloba maai* Lin, 1964: 238. Holotype ♀ (not ♂); Taiwan: Paomingszu, 2 km S Keelung (238 (descr.), depository: TARI).

*Loboscelidia latigena* Lin, 1964: 241. Holotype ♂, Taiwan: Tsaoshan, 20 km NW Taipei city (241 (descr.), depository: TARI) (synonymised by Kimsey 2012).

*Loboscelidia artigena* Lin, 1964: 243. Holotype ♂, Taiwan: Paomingzu, 2 Km S Keelung (243 (descr.), depository: TARI) (synonymised by Kimsey and Bohart 1991).

*Loboscelidia maai* (Lin, 1964): Kimsey and Bohart 1991: 147 (Taiwan, cat.); Xu et al. 2006: 209 (key); Liu et al. 2010: 641 (key in Chinese), 643 (comp. notes in Chinese.), 645 (key and comp. notes in English); Yao et al. 2010: 526 (cit.), 533 (key); Kimsey 2012: 11 (comp. notes), 24 (Taiwan, tax.).

**Distribution.** China (Taiwan).

**Remarks.** In Kimsey (2012) *L. latigena* is considered a synonym of *L. maai*, but in the keys *L. latigena*, rather than *L. maai*, is mentioned.

24. *Loboscelidia sinensis* Kimsey, 1988
http://species-id.net/wiki/Loboscelidia_sinensis

*Loboscelidia sinensis* Kimsey, 1988: 76. Holotype ♂, China: Hainan (76 (descr.), depository: BMNH).

*Loboscelidia sinensis:* Kimsey and Bohart 1991: 148 (China: Hainan, cat.); Xu et al. 2006: 209 (key); Liu et al. 2010: 641 (key in Chinese), 645 (key in English); Yao et al. 2010: 526 (cit.), 530 (China: China: Zhejiang: Kaifushan Province; Taishun County, Wuyanling National Nature Reserve; Fujian, Minqing, Huangchulin Provincial Nature Reserve; Guangdong, Nanling National Nature Reserve; Shixing, Chebaling National Nature Reserve; Hainan, Jianfengling National Nature Reserve; Bawangling National Nature Reserve, descr., tax.), 531 (figs 3A–3H), 533 (key, comp. notes); Kimsey 2012: 8 (key), 24 (comp. notes), 37 (China: Hainan, descr., tax.), 39 (cit.).

**Distribution.** China (Zhejiang, Fujian, Guangdong, Hainan).

25. *Loboscelidia striolata* Yao, Liu & Xu, 2010
http://species-id.net/wiki/Loboscelidia_striolata

*Loboscelidia striolata* Yao, Liu & Xu, 2010: 530. Holotype ♂, China: Guangdong: Nanling National Nature Reserve (526 (cit.), 530 (descr.), 532 (figs 4A–4H), 533 (key), depository: SCAU)*.
*Loboscelidia striolata*: Kimsey 2012: 24 (comp. notes), 38 (China: Guangdong, tax.), 39 (comp. notes).

**Distribution.** China (Guangdong).

26. *Loboscelidia zengae* Liu, Yao & Xu, 2010
http://species-id.net/wiki/Loboscelidia_zengae

*Loboscelidia zengae* Liu, Yao & Xu, 2010: 643. Holotype ♀, China: Hainan: Wuzhis-han (641 (key in Chinese), 643 (descr. in Chinese), 644 (figs 7–12), 645 (key, descr. in English), depository: SCAU)*.

**Distribution.** China (Hainan).

5. Genus *Rhadinoscelidia* Kimsey, 1988

27. *Rhadinoscelidia delta* Liu, Yao & Xu, 2011
http://species-id.net/wiki/Rhadinoscelidia_delta

*Rhadinoscelidia delta* Liu, Yao & Xu, 2011: 13. Holotype ♀, China: Hainan: Wuzhis-han (13 (descr.), 14 (figs 1–6), 15 (figs 7–12), 16 (key), depository: SCAU)*.

**Distribution.** China (Hainan).

Subfamily Chrysidinae

Tribe Elampini

6. Genus *Elampus* Spinola, 1806

28. *Elampus albipennis* (Mocsáry, 1889)
http://species-id.net/wiki/Ellampus_albipennis
Plate 3

*Elampus (Notozus) albipennis* Mocsáry, 1889: 80 [nec *Elampus*]. Lectotype ♂ design. by Móczár (1964b: 447), Russia: Sarepta (depository: HNHM)*.

*Notozus violascens* (Mocsáry, 1889): du Buysson 1911: 218 (China: “Nan Chan, versant Nord; route de Cha Tchéou à Kan Tchéou; Linchouei, par 1, 500 mètres d’altitude, 25 juin 1908. Nan Chan: route de Kan Tchéou à Lan Tchéou par Si Ning; col de King Yang Ling, par 3,800 mètres d’altitude”, tax.) [misid.].

*Notozus albipennis*: Tsuneki 1953a: 54 (Manchuria: Kaiyüan, Kupeikau, tax.).
Omalus (Notozus) albipennis: Linsenmaier 1959: 16 (key), 24 (tax., cat., distr.).

Elampus albipennis: Kimsey and Bohart 1991: 166 (cat.).

**Distribution.** China (Liaoning, Beijing). Widely distributed in the Palaearctic Region (Tsuneki 1953a; Linsenmaier 1959). The Chinese specimen is not listed in the distribution by Kimsey and Bohart (1991).

**Remarks.** The record of *Notozus violascens* Mocsáry by du Buysson (1911) is a misidentification: the reduced dimension and the green colour reported by the author match other species: *E. albipennis* Mocsáry, *E. mocsaryi* (Radoszkowski) and *E. turcemenicus* (Linsenmaier). Without examining the specimens it is not possible to correctly identify them.

Linsenmaier (1959) placed *E. tournieri* Dalla Torre, 1892 (repl. name for *E. viridis* Tournier, 1890) as synonym of *E. albipennis* (Mocsáry).

29. **Elampus bischoffi** Kimsey, 1991

http://species-id.net/wiki/Elampus_bischoffi

Notozus spinosus Bischoff, 1910: 436. Syntypes ♂♀, China: Chinese Turkestan [= Xinjiang], Tschakar and Saiback near Pulu (MNHU)*, nec Provancher, 1881.

Notozus spinosus Bischoff, 1913: 7 (Chinese Turkestan [= Xinjiang], cat.).

Elampus (Notozus) spinosus: Linsenmaier 1959: 16 (key), 24 (Chinese Turkestan [= Xinjiang], tax., descr.).

Elampus bischoffi Kimsey (in Kimsey & Bohart), 1991: 167. Replacement name for *spinosus* Bischoff, 1910 nec Provancher, 1881, China: Sinkiang [= Xinjiang], cat.).

Elampus bischoffi: Kurzenko and Lelej 2007: 1003 (China: Inner Mongolia, Xinjiang, cat.).

**Distribution.** China (Xinjiang, Inner Mongolia).

30. **Elampus caeruleus** Dahlbom, 1854

http://species-id.net/wiki/Elampus_coeruleus

Plate 4

Elampus caeruleus Dahlbom, 1854: 46. Syntypes ♂♀, Austria, Germany, Ukraine (46 (descr.), depository: MNHU)*.

Omalus viridiventris Abeille, 1878: 2. Unnecessary replacement name for *Elampus caeruleus* Dahlbom, 1854.

Notozus caeruleus f. caeruleus: Tsuneki 1953a: 53 (Manchuria: Tierin, cat.).

Omalus (Notozus) panzeri ssp. caeruleus: Linsenmaier 1968: 12 (Manchuria [Heilongjiang], distr.).

Notozus panzeri caeruleus: Banaszak 1980: 8 (Manchuria [Heilongjiang], tax.).

Elampus caeruleus (!): Kimsey and Bohart 1991: 167 (cat.).
Material examined. Heilongjiang: 1♂, Harbin, without data; 1♂, Harbin, 10.VII.1949 leg. Alin (NMLS).

Distribution. China (Heilongjiang, Liaoning). Widely distributed in the Palaearctic Region (Tsuneki 1953a; Linsenmaier 1959, 1968).

Remarks. The taxonomic status of *E. coeruleus* is unclear. Various authors have alternately considered it as a valid species, a subspecies of *E. panzeri*, or a synonym of either *E. panzeri* or *E. constrictus*.

31. **Elampus constrictus** ( Förster, 1853)

http://species-id.net/wiki/Notozus_constrictus

*Notozus constrictus* Förster, 1853: 336. Holotype ♂, Germany: Aachen (336 (descr.), depository: MNHU)*.

*Ellampus* (*Notozus*) *soror* Mocsáry, 1889: 68. Neotype ♀ design. by Móczár (1964b: 422), Hungary: Budapest (depository: HNHM) (synonymised by Móczár, 1967).

*Elampus panzeri* sensu Trautmann, 1927, sensu Linsenmaier, 1959.

*Notozus yasumatsui*: Tsuneki 1948a: 116 (China: Kaiyüan).

*Notozus panzeri*: Tsuneki 1948a: 118 (China: Shanxi: Tungyehchen, distr., tax.), 128 (China: Shanxi, cat.).

*Notozus coeruleus* f. *soror*: Tsuneki 1953a: 54 (China: Kaiyüan, tax.).

Distribution. China (Liaoning, Shanxi). Widely distributed in the Palaearctic Region (Linsenmaier 1959; Móczár 1967).

Remarks. Tsuneki (1953a) wrote that the paratype of *E. yasumatsui* from Shanxi is to be referred to *Elampus (=Notozus*) *coeruleus* f. *soror*. The taxonomic position of *E. soror* is unclear: according to Linsenmaier (1959) it is a synonym of *E. coeruleus* Dahlbom. It has been considered a variety of *E. coeruleus* (Bischoff 1913), *E. panzeri* (Trautmann 1927) and *E. constrictus* (Móczár 1964b). Only Kimsey and Bohart (1991) listed *E. soror* as a valid species. We here consider *E. soror* as a synonym of *E. constrictus* following Móczár (1967) and Rosa and Soon (2012). Kimsey and Bohart (1991) considered *E. panzeri* and *E. constrictus* synonyms of *Chrysis* *E. scutellaris* Panzer, but without any type examination.

32. **Elampus mocsaryi** Radoszkowski, 1887

http://species-id.net/wiki/Elampus_mocsaryi

*Elampus mocsari* (!) Radoszkowski, 1887: 45. Holotype ♀, China [not Mongolia]: Qinghai: Zaïdam (45 (descr.), depository: ISEA-PAS)*.

*Ellampus* (*Notozus*) *mocsaryi*: Mocsáry 1889: 80. Justified emendation of *Elampus mocsari* Radoszkowski, 1887.
Ellampus mocsaryi: Dalla Torre 1892: 14 (Mongolia [= China], cat.); Kimsey and Bohart 1991: 168 (Mongolia [= China], cat.).
Notozus mocsaryi: Bischoff 1913: 6 (Mongolia [= China], cat.).
Omalus (Notozus) mocsaryi: Linsenmaier 1959: 16 (key), 24 (Mongolia [= China], tax., descr.).

**Distribution.** China (Qinghai).

33. *Elampus panzeri* (Fabricius, 1804)
http://species-id.net/wiki/Chrysis_panzeri

*Chrysis scutellaris* Panzer, 1798: fig. 51, tav. 11. Holotype (sex unknown), Germany: Nurnberg (MNHU?).
*Chrysis panzeri* Fabricius, 1804: 172. Replacement name for *Chrysis scutellaris* Panzer, 1798, *nec* Fabricius, 1794.
*Notozus constrictus* Förster, 1853 sensu Linsenmaier 1959.
*Notozus constrictus*: Balthasar 1954: 73 (key), 77 (tax., descr.), 78 (China, distr.); Banaaszak 1980: 8 (Manchuria, tax., biol.).
*Omalus (Notozus) constrictus*: Linsenmaier 1959: 16 (key), 24 (Manchuria, tax., descr.), 216 (fig. 667).

**Material examined.** Heilongjiang: 1♂, Harbin, 19.VII.1953; 1♂, Harbin, 10.VII.1949 leg. Alin (NMLS).

**Distribution.** China (Heilongjiang). Widely distributed in the Palaearctic Region (Linsenmaier 1959).

34. *Elampus schmidtianus* (Semenov-Tian-Shanskij, 1967)
http://species-id.net/wiki/Notozus_schmidtianus
Plate 5

*Notozus schmidtianus* Semenov-Tian-Shanskij, 1967: 124. Holotype ♀, China: Xinjiang: Gashun Gobi, Sandzou oasis (124 (descr.), depository: ZIN)*.
*Elampus schmidtianus*: Kimsey and Bohart 1991: 170 (China: Gashun Gobi, cat.).

**Distribution.** China (Xinjiang). Former southern USSR (Kimsey and Bohart 1991).

**Remarks.** This species is closely related to *E. albipennis* (Mocsáry, 1889).
35. **Elampus spinipes** (Mocsáry, 1890)
http://species-id.net/wiki/Ellampus_spinipes

*Elampus* (*Notozus*) *spinipes* Mocsáry, 1890b: 49. Holotype ♀, China: “Mongolia meridionalis (Ta-\-wan), [China: Inner Mongolia] (49 (descr.), depository: ISEA-PAS)*. *Elampus spinipes*: Dalla Torre 1892: 18 (Mongolia [= Inner Mongolia], cat.). *Elampus spinipes*: Kimsey and Bohart 1991: 171 (Mongolia [= Inner Mongolia], cat.). *Notozus spinipes*: Bischoff 1913: 7 (Mongolia [= Inner Mongolia], cat.). *Omalus* (*Notozus*) *spinipes*: Linsenmaier 1959: 16 (key), 24 (Mongolia [= Inner Mongolia], descr.).

**Distribution.** China (Inner Mongolia).

**Remarks.** The type locality in literature was always considered in Mongolia.

36. **Elampus yasumatsui** (Tsuneki, 1948)
http://species-id.net/wiki/Notozus_yasumatsui

*Notozus yasumatsui* Tsuneki, 1948a: 116. Holotype ♀, China: Shanxi: Yüankii (116 (descr.) 117 (comp. notes), 128 (Shanxi, cat.), pl. 6 (figs. A–F), depository: KUM). *Omalus* (*Notozus*) *yasumatsui*: Linsenmaier 1959: 16 (key), 24 (China, descr.). *Elampus yasumatsui*: Kimsey and Bohart 1991: 173 (China: Shanxi, cat.); Kurzenko and Lelej 2007: 1003 (China: Shanxi, cat.).

**Distribution.** China (Shanxi).

7. **Genus Hedychridium** Abeille de Perrin, 1878

37. **Hedychridium ardens mongolicum** Tsuneki, 1947
http://species-id.net/wiki/Hedychridium_ardens_mongolicum

*Hedychridium ardens* ssp. *mongolicum* Tsuneki, 1947: 47. Holotype ♀, China: Inner Mongolia: Apaka (47 (descr.), depository: NIAS). *Hedychridium ardens* ssp. *mongolicum*: Linsenmaier 1959: 48 (possible synonym of *incensum* Mocsáry, 1914). *Hedychridium ardens*: Kurzenko and Lelej 2007: 1003 (China: Gansu: Xiahe, cat.).

**Distribution.** China (Inner Mongolia, Gansu).

**Remarks.** Linsenmaier (1959) considered *Hedychridium ardens* ssp. *mongolicum* a possible junior synonym of *Hedychridium incensum* (Mocsáry, 1914). The type examination of *H. ardens* ssp. *mongolicum* is needed, because *H. ardens* ssp. *mongolicum*
could be also related to *Hedychridium ardens* ssp. *asianum* Linsenmaier, 1997 described from Mongolia [= *integrum* ssp. *asianum*]. However, Linsenmaier did not check any types in this complicated species group.

38. *Hedychridium coriaceum* (Dahlbom, 1854)

http://species-id.net/wiki/Hedychrum_coriaceum
Plate 6

*Hedychrum coriaceum* Dahlbom, 1854: 88. Lectotype ♀ design. by Morgan (1984: 10), Finland (depository: LZM)*.

*Hedychridium coriaceum*: Tsuneki 1947: 46 (China: Beijing, cat.); Linsenmaier 1959: 44 (key), 53 (tax., descr.), 200 (figs 189, 190); Kimsey and Bohart 1991: 184 (tax.), 191 (cat.).

**Distribution.** China (Beijing). Europe (Linsenmaier 1959; Kimsey and Bohart 1991).

39. *Hedychridium cupreum* *asianum* (Linsenmaier, 1997), n. comb.

http://species-id.net/wiki/Hedychridium_integrum_asianum

*Hedychridium integrum* ssp. *asianum* Linsenmaier, 1997a: 254. Holotype ♂, Mongolia: Central Aimag, Ulan Bator, 1900 m (254 (descr.), type series: China: Gansu, Xiahe, 3000–3500 m, depository: coll. Koschwitz, Germany).

**Distribution.** China (Gansu). Mongolia (Linsenmaier 1997a).

**Remarks.** Linsenmaier (1959) and Kimsey and Bohart (1991) listed *Hedychridium integrum* (Dahlbom, 1829) and *H. cupreum* (Dahlbom, 1845) as valid species, but *H. integrum* is a greenish form of *H. ardens* (Coquebert, 1801) (Paukkunen et al. 2014). Therefore we transfer the subspecies *H. asianum* Linsenmaier to *H. cupreum* (Dahlbom).

40. *Hedychridium cupreum* (Dahlbom, 1845)

http://species-id.net/wiki/Hedychrum_cupreum
Plate 7

*Hedychrum cupreum* Dahlbom, 1845: 3. Lectotype ♀ design. by Paukkunen et al. (2014), Sweden [nec Switzerland] (3 (descr.), depository: NHMW)*.

*Hedychridium integrum* f. *cupratum*: Tsuneki 1948a: 123 (China: Shanxi: Chenhaissu, cat.), 128 (Shanxi, cat.).

**Distribution.** China (Shanxi). Widely distributed from central and northern Europe to West Asia (Linsenmaier 1959, 1997a).
Remarks. The species was listed as *cupratum* Dahlbom by Tsuneki (1948a), a species endemic to the European Alps and is to be excluded from the Chinese fauna. It is likely that Tsuneki was referring to *cupreum* (Dahlbom, 1854), which is widely distributed from central and northern Europe all the way to West Asia.

41. **Hedycharidium flos** (Semenov-Tian-Shanskij, 1954)

   http://species-id.net/wiki/Cyrtuechrum_flos

   Plate 8

   *Cyrtuechrum flos* Semenov-Tian-Shanskij, 1954: 105. Holotype ♀, Kazakhstan: Imam-Baba (depository: ZIN)*.

   *Cyrtuechrum nivifrons* Semenov-Tian-Shanskij, 1967: 134. Holotype ♂, China [Xinjiang]: Bugas near Hami [Kumul] (depository: ZIN)* (synonymised by Kimsey and Bohart 1991: 194).

   **Hedycharidium flos**: Kimsey and Bohart 1991: 194 (cat.); Rosa et al. 2013: 5 (China: Xinjiang [= Heilongjiang], cat.).

   **Distribution.** China (Xinjiang). Iran, Kazakhstan (Semenov-Tian-Shanskij 1967; Rosa et al. 2013).

42. **Hedycharidium roborovskii** Semenov-Tian-Shanskij, 1967

   http://species-id.net/wiki/Hedycharidium_roborovskii

   Plate 9

   *Hedycharidium roborovskii* Semenov-Tian-Shanskij, 1967: 129. Holotype ♀, China: Xinjiang: Gashun Gobi, Sachzou oasis (129 (descr.), depository: ZIN)*.

   **Hedycharidium roborovskii**: Kimsey and Bohart 1991: 203 (China: Gashun Gobi, cat.).

   **Distribution.** China (Xinjiang).

43. **Hedycharidium roseum** (Rossi, 1790)

   http://species-id.net/wiki/Chrysis_carnea_rosea

   *Chrysis carnea* var. *rosea* Rossi, 1790: 75. Syntypes, Italy: Tuscany (75 (descr.), depository: MNHU?).

   **Hedycharidium roseum**: Tsuneki 1953a: 55 (Manchuria: Fen-Tien [= Liaoning], cat., distr.); Tsuneki 1953b: 23 (Manchuria, cat.); Linsenmaier 1959: 57 (*roseum* group), 58 (Manchuria, key, tax., distr.), 198 (figs 105, 106, 115), 199 (fig. 137); Banaszak 1980: 14 (Manchuria, tax., biol.); Kimsey and Bohart 1991: 180 (fig. 62m), 185 (tax.), 203 (cat.).


**Hedychridium roseum roseum**: Arens 2010: 406 (Manchuria, cat.), 410 (tax., descr.), 442 (figs 9e, 9f).

**Material examined.** 1 ex., Heilongjiang: Harbin, 20.VII.1953 leg. Alin (NMLS).

**Distribution.** China (Heilongjiang, Liaoning). Widely distributed in the Palaearctic Region (Tsuneki 1953a, 1953b; Linsenmaier 1959, 1999; Kurzenko and Lelej 2007).

**8. Genus Hedychrum Latreille, 1802**

**44. Hedychrum chalybaeum Dahlbom, 1854**

http://species-id.net/wiki/Hedychrum_chalybaeum

*Hedychrum chalybaeum* Dahlbom, 1854: 64. Syntypes ♂♂, Europe: ‘Europa media et meridionali’, Russia, Prussia, Silesia (64 (descr.), depositories: MNHU, LZM)*.

*Hedychrum coerulescens* Shuckard, 1837: Tsuneki 1947: 51 (China: Inner Mongolia: Apaka, cat.) [misid.].

*Hedychrum szaboi* Mocsáry, 1889: 167. Lectotype ♀ (design. by Móczár (1964a: 440), Germany: Thuringia (167 (descr.), depository: HNHM)* (synonymised by Trautmann 1927).

*Hedychrum chalybaeum*: Tsuneki 1953a: 55 (China: Heilongjiang: Harbin, cat., distr.); Linsenmaier 1959: 36 (key), 39 (Manchuria, tax., descr.), 197 (figs 65–69); Móczár 1967: 39 (China, key, tax., descr.); Banaszak 1980: 16 (tax., distr.), 17 (China, biol.); Kimsey and Bohart 1991: 210 (tax.), 212 (cat.).

*Hedychrum komarovi* Semenov-Tian-Shanskij, 1967: 138. Holotype ♂, China: Gansu (138 (descr.), depository: ZIN)* (synonymised by Kimsey and Bohart 1991).

*Hedychrum martynovi* Semenov-Tian-Shanskij, 1967: 138. Holotype ♂, Manchuria: Langashi (138 (descr.), depository: ZIN)* (synonymised by Kimsey and Bohart 1991).

**Distribution.** China (Heilongjiang, Inner Mongolia, Gansu). Widely distributed in the Palaearctic Region (Linsenmaier 1959; Kurzenko and Lelej 2007).

**Remarks.** *Hedychrum szaboi* Mocsáry, 1889 is the female of *H. chalybaeum* Dahlbom (Trautmann 1927).

**45. Hedychrum davidi du Buysson, 1900**

http://species-id.net/wiki/Hedychrum_davidi

*Hedychrum davidi* du Buysson, 1900: 131. Holotype ♂, China: Beijing (131 (descr.), depository: MNHN).

*Hedychrum davidi*: Bischoff 1913: 18 (China, cat.); Kimsey and Bohart 1991: 213 (China: Beijing, cat.); Kurzenko and Lelej 2007: 1003 (China: Beijing, cat.).

**Distribution.** China (Beijing).
**46. Hedychrum formosanum** Mocsáry, 1911

http://species-id.net/wiki/Hedychrum_formosanum

Plate 10

*Hedychrum formosanum* Mocsáry, 1911: 458. Holotype ♂, Taiwan: Takao [= Kaohsiung] (458 (descr.), depository: HNHM)*.

*Hedychrum formosanum*: Mocsáry 1913b: 613 (Taiwan: Takao [= Kaohsiung], cat.), 619 (cat.); Bischoff 1913: 19 (Taiwan, cat.); Uchida 1927: 150 (Taiwan, cat.); Uchida 1933: 2 (Taiwan, cat.); Tsuneki 1970b: 4 (Taiwan: Shihtsulu, Kuonfu, tax., descr.), 5 (comp. notes); Tsuneki 1970c: 48 (Formosa, tax.).

**Distribution.** China (Taiwan).

**Remarks.** Tsuneki (1970b) gave a detailed comparison with the similar Japanese species *H. okai* Tsuneki.

**47. Hedychrum gerstaeckeri** Chevrier, 1869

http://species-id.net/wiki/Hedychrum_gerstaeckeri

Plate 11

*Hedychrum gerstaeckeri* Chevrier, 1869: 47. Syntypes ♀♀, Switzerland: Nyon, Beau-lac (47 (descr.), depository: MHNG)*.

*Hedychrum marianum* Mocsáry, 1911: 450. Lectotype ♀ design. by French (in Bohart and French 1986: 341), China (depository: HNHM)*.

*Hedychrum marianum*: Bischoff 1913: 19 (China, cat.); Wu 1941: 118 (China, cat.); Linsenmaier 1959: 41 (syn. of *japonicum* Mocsáry); Bohart and French 1986: 341 (China, lectotype design.); Kimsey and Bohart 1991: 214 (China, syn.).

*Hedychrum gerstaeckeri* f. *marianum*: Tsuneki 1947: 50 (tax., possible syn. of *japonicum* Cameron, 1887).

*Hedychrum gerstaeckeri*: Tsuneki 1947: 50 (comp. notes); Linsenmaier 1959: 36 (key), 37 (key), 40 (tax., descr.), 198 (figs 81–83); Kimsey and Bohart 1991: 214 (Taiwan, cat.); Linsenmaier 1997b: 33 (key), 62 (Taiwan, tax., descr., fig. 33), 63 (colour picture).

*Hedychrum gerstaeckeri* ssp. *formosaiense* Linsenmaier, 1959: 41. Holotype ♂, Taiwan (41 (descr.), depository: RMNH).

**Distribution.** China (Taiwan and mainland) (Linsenmaier 1959). Widely distributed in the Palaearctic Region (Mocsáry 1911; Trautmann 1927; Linsenmaier 1959; Kurzenko and Lelej 2007).

**Remarks.** The placement of *H. gerstaeckeri* *formosaiense* Linsenmaier is uncertain. According to Tsuneki (1970b), it could be synonym or a form of *Hedychrum japonicum* Cameron, 1887.
48. *Hedychrum gracile* Semenov-Tian-Shanskij, 1967
http://species-id.net/wiki/Hedychrum_gracile
Plate 12

*Hedychrum gracile* Semenov-Tian-Shanskij, 1967: 139. Holotype ♀, China: Gansu (139 (descr.), depository: ZIN)*.

*Hedychrum gracile*: Kimsey and Bohart 1991: 214 (China: Han Shui, cat.).

**Distribution.** China (Sichuan).

**Remarks.** The label of the holotype is handwritten by Semenov: Sichuan, Maozhou-Matajgi, leg. Potanin, 27.VIII.1893. Actually, the date (27.VIII.1893) and the collector (Potanin) given in the description are the same as those on the type label. Semenov-Tian-Shanskij mistakenly placed the type locality in Gansu Province instead of the adjacent Sichuan Province.

49. *Hedychrum japonicum* Cameron, 1887
http://species-id.net/wiki/Hedychrum_japonicum

*Hedychrum japonicum* Cameron, 1887: 123. Holotype ♂, Japan: Fukui (123 (descr.), depository: BMNH).

*Hedychrum japonicum*: Tsuneki 1946: 35 (North China, tax.), 39 (descr.); Tsuneki 1947: 50 (comp. notes); Tsuneki 1953b: 23 (North China, tax., aberr.); Kimsey and Bohart 1991: 214 (cat.).

*Hedychrum gerstaeckeri* ssp. *japonicum*: Linsenmaier 1959: 41 (North China, descr.); Tsuneki 1970b: 33 (North China, Taiwan, tax.); Tsuneki 1970b: 3 (tax.), 4 (Taiwan: Wushue, notes); Tsuneki 1970c: 47 (Taiwan, North China, key, tax.).

**Distribution.** North China and Taiwan. Korea, Japan (Tsuneki 1953b; Linsenmaier 1959).

**Host.** *H. gerstaeckeri japonicum* was observed flying around the nests of *Cerceris* spp., in particular those of *C. hortivaga* Kohl (Hymenoptera, Crabronidae). For other host relationships observed in Europe see Rosa (2006).

**Remarks.** Tsuneki (1946) considered *H. marianum* as the junior synonym of *H. japonicum*.

50. *Hedychrum latitudum* Linsenmaier, 1959
http://species-id.net/wiki/Hedychrum_latitudum

*Hedychrum latitudum* Linsenmaier, 1959: 39. Holotype ♂, China: Heilongjiang: Harbin (36 (key), 39 (descr.), 197 (figs 75, 76), depository: NMLS)*.

*Hedychrum latitudum*: Kimsey and Bohart 1991: 215 (China: Manchuria, cat.); Kurzenko and Lelej 2007: 1003 (China: Heilongjiang, cat.).
Material examined. Heilongjiang: 1♂, Harbin, 20.VII.1953, leg. Alin / Type (NMLS).

Distribution. China (Heilongjiang).

51. *Hedychrum longicolle* Abeille, 1877

http://species-id.net/wiki/Hedychrum_longicolle

Plate 13

*Hedychrum longicolle* Abeille, 1877: 65. Lectotype ♀ design. by Kimsey (1986: 108), France: Marseille, Toulon (65 (descr.), depositories: MNHN, MHNG)*.

*Hedychrum longicolle*: du Buysson 1904: 257 (China, cat.); Trautmann 1927: 71 (China, tax., descr., distr.); Berland and Bernard 1938: 53 (key), 55 (China, tax., descr., distr.), 56 (figs 68–69); Balthasar 1954: 120 (tax.), 122 (China, key, tax., descr., distr.); Linsenmaier 1959: 36 (key), 37 (key), 41 (China, tax., descr., distr.), 198 (figs 84–86); Móczár 1967: 41 (China, key, tax., descr., distr.); Banaszak 1980: 19 (China, tax., distr.); Kimsey 1986: 108 (lectotype des.); Kimsey and Bohart 1991: 209 (figs 64d, 64h, 64l), 210 (tax.), 215 (cat.); Kurzenko and Lelej 2007: 1003 (China, cat.).

Distribution. China. Widely distributed in the Palaearctic Region (Linsenmaier 1959, 1999; Kurzenko and Lelej 2007).

52. *Hedychrum manchurianum* Tsuneki, 1950

http://species-id.net/wiki/Hedychrum_manchurianum

*Hedychrum manchurianum* Tsuneki, 1950: 64. Holotype ♀, Manchuria (64 (Kaiyüan, descr.), depository: EIHU).

*Hedychrum manchurianum*: Tsuneki 1953a: 57 (Manchuria, tax., fig. 1); Kimsey and Bohart 1991: 216 (Manchuria, cat.); Kurzenko and Lelej 2007: 1003 (Northeast China, cat.).

Distribution. China (Liaoning).

53. *Hedychrum niemelai* Linsenmaier, 1959

http://species-id.net/wiki/Hedychrum_aureicolle_niemelai

Plate 14

*Hedychrum aureicolle* ssp. *niemelai* Linsenmaier, 1959: 38. Holotype ♀, Switzerland: Wallis (63 (type series: Manchuria, descr.), 197 (figs 62–64), depository: NMLS)*.

*Hedychrum aureicolle* ssp. *niemelai*: Banaszak 1980: 19 (Manchuria, tax., distr., biol.); Linsenmaier 1997b: 33 (key), 62 (Manchuria, tax., descr., distr., fig. 32).

*Hedychrum niemelai*: Kimsey and Bohart 1991: 217 (cat.).
Material examined. Heilongjiang: Paratype, 1♀, Harbin, 20 July (NMLS).

Distribution. China (Heilongjiang). Switzerland (Linsenmaier 1959).

54. *Hedychrum nobile* (Scopoli, 1763)
http://species-id.net/wiki/Sphex_nobile

*Sphex nobile* Scopoli, 1763: 297. Holotype ♀; Italy (297 descr., type lost).

*Hedychrum nobile*: Hammer 1936: 3 (China: Kansu [= Gansu], cat.); Tsuneki 1947: 47 (China: Inner Mongolia: Apaka, cat., distr.); Tsuneki 1953a: 56 (Manchuria: Furari-uki, North of Tsitsihar [= Qiqihar], cat., distr.); Tsuneki 1953b: 23 (North China, Manchuria, cat.); Kimsey and Bohart 1991: 209 (fig. 209e), 210 (tax.), 217 (cat.).

Distribution. China (Heilongjiang, Inner Mongolia, Gansu, Tianjin). Widely distributed in the Palaearctic Region from Europe and North Africa to Turkmenistan, Siberia, Korea, Japan (Tsuneki 1953b; Linsenmaier 1959; Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

55. *Hedychrum simile* Mocsáry, 1889
http://species-id.net/wiki/Hedychrum_simile

Plate 15

*Hedychrum cyaneum* Mocsáry (in Radoszkowski), 1889: 10 nec Brullé, 1846. Lectotype ♀ design. by French (in Bohart and French 1986: 341), China “Ta-schian-sy” (HNHM)*.

*Hedychrum simile* Mocsáry, 1889: 157. Replacement name for *Hedychrum cyaneum* Radoszkowski, 1889 nec Brullé, 1846.

*Hedychrum simile*: Dalla Torre, 1892: 35 (China, cat.); Mocsáry 1890a: 61 (China borealis, cat.); Tsuneki 1946: 37 (Manchuria, tax.); Tsuneki 1947: 51 (China: Inner Mongolia: Apaka; North China: Tientsing [= Tianjin], tax., distr.); Tsuneki 1953b: 23 (North China, Manchuria, tax.); Linsenmaier 1959: 36 (key), 37 (key), 39 (Manchuria, tax., descr.), 198 (figs 79, 80); Bohart and French 1986: 341 (lectotype designation by French, China (“borealis”): Ta-schian-sy); Kimsey and Bohart 1991: 220 (China, Manchuria, cat.); Kurzenko and Lelej 2007: 1003 (Northeast China, tax.); Terayama et al. 2010: 6 (figs.), 10 (China, cat.), 12 (tab., biol.).

*Hedychrum simili* (!): Uchida 1927: 151 (North China, cat.).

*Hedychrum simile* f. pullatum Tsuneki, 1953b: 23. Syntype ♀♂, Korea, Shôyôzan (23 descr., depository: NIAS).

*Hedychrum simile* ssp. aereum Tsuneki, 1970a: 34. Holotype ♀, Japan, Chiba (34 descr., depository: NIAS).
**Distribution.** Northeast China, Inner Mongolia, Tianjin. Widely distributed in the Palaearctic Region from Europe and North Africa to Central Asia, Mongolia, Korea, Japan and Russian Far East (Tsuneki 1953b; Linsenmaier 1959; Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

**Host.** *Cerceris arenaria* (Linnaeus, 1758) (Hymenoptera, Crabronidae) (Tsuneki 1979).

**Remarks.** Mocsáry examined at least two specimens of both sexes (see the symbols male and female in the first couplet). However, in the original description Mocsáry (in Radoszkowski) gave the description of *H. simile* (sub *cyaneum* Mocsáry nec Brullé) based only on the male housed in the Radoszkowski collection and dissected by the Russian entomologist, who drew the genitalia. The type locality given by Radoszkowski is “Siberia orientalis”, and it has to be referred only to the male housed in the Radoszkowski collection. In the MNHM, we examined the rest of the type series listed by Mocsáry (1889): a female specimen collected in China (Ta-schian-sy). French (1986) designated this female as lectotype. However, this female belongs to a different species compared with the male collected in Siberia. The female lectotype is characterised by the very long pronotum (similar to *H. longicolle*) and sharp and pointing out propodeal angles, while the male has a short pronotum and wide and triangular propodeal angles. A revision of the blue Asian species of *Hedychrum* is missing and urgently needed.

56. *Hedychrum sinicum* Semenov-Tian-Shanski, 1967  
http://species-id.net/wiki/Hedychrum_sinicum  
Plate 16

*Hedychrum sinicum* Semenov-Tian-Shanskij, 1967: 140. Holotype ♂, China: Sichuan (depository: ZIN)*.

*Hedychrum sinicum*: Kimsey and Bohart 1991: 220 (China: Sechuan [= Sichuan], cat.).

**Distribution.** China (Sichuan).

57. *Hedychrum taiwanense* Tsuneki, 1970  
http://species-id.net/wiki/Hedychrum_taiwanense

*Hedychrum taiwanense* Tsuneki, 1970b: 5. Holotype ♂, Taiwan: Liyuchih [= Li-yu Ch‘ih]: Hualien (5 (tax. descr.), depository: NIAS).

*Hedychrum taiwanense*: Kimsey and Bohart 1991: 221 (Taiwan: Liyuchih Prov., Hualien, cat.).

**Distribution.** China (Taiwan).
58. **Hedychrum takasago** Tsuneki, 1970  
http://species-id.net/wiki/Hedychrum_takasago

*Hedychrum takasago* Tsuneki, 1970b: 4. Holotype ♀, Taiwan: Chuchi: Chiai (4 (tax., descr.), 5 (type series: Taiwan: Chiai Prov: Chuchi; Hualien Prov: Kuanfu, Pingtung Prov.: Henchung, tax., descr. comp. notes), depository: OMNH, not NIAS).  
*Hedychrum takasago*: Kimsey and Bohart 1991: 221 (Taiwan: Chuchi, cat.).

**Distribution.** China (Taiwan).

9. Genus *Holophris* Mocsáry, 1890

59. **Holophris taiwanus** (Tsuneki, 1970)  
http://species-id.net/wiki/Omalus_taiwanus

*Omalus taiwanus* Tsuneki, 1970b: 2. Holotype ♂, Taiwan: Nantou: Chienching (2 (tax., descr., figs 1–4), 3 (type series: Taiwan: Nantou Province: Chienching, Puli), depository: OMNH, not NIAS).  
*Holophris taiwanus*: Kimsey and Bohart 1991: 225 (Taiwan, cat.).

**Distribution.** China (Taiwan).

10. Genus *Holopyga* Dahlbom, 1845

60. **Holopyga amoenula virideaurata** Linsenmaier, 1951  
http://species-id.net/wiki/Holopyga_amoenula_virideaurata

*Holopyga amoenula var. virideaurata* Linsenmaier, 1951: 16. Holotype ♀, Greece: Rhodes (16 (descr.), depository: NMLS)*.  
*Holopyga amoenula* ssp. *virideaurata*: Linsenmaier 1959: 31 (? China, tax.).  
*Holopyga amoenula*: Kimsey and Bohart 1991: 228 (cat.).

**Material examined.** Heilongjiang: 1♂, Harbin, 6.VII.1947; 1♀, id., 10.VII.1949; 1♂, id., 20.VII.1953, all specimens leg. Alin; 1♀, China; 1♂, Kouy-Théou Cavalarie 1921 (NMLS).  
**Distribution.** China (Heilongjiang, Guizhou). Widely distributed in the Palaearctic Region (Kimsey and Bohart 1991).  
**Remarks.** Linsenmaier (1959) dubiously considered the specimens from Harbin to be *H. amoenula* ssp. *virideaurata*. These specimens were still identified as *virideaurata* in his collection and seem to fit the current interpretation of the taxon. At present,
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H. amoenula amoenula is an endemism of the Mediterranean island of Rhodes, but some specimens may also be found in southern Greece. A re-evaluation of all the subspecies and taxa related to H. amoenula s. str. is urgently needed.

61. Holopyga chrysonota (Förster, 1853)

http://species-id.net/wiki/Ellampus_chrysonotus

Ellampus chrysonotus Förster, 1853: 347. Holotype ♂, Hungary: Budapest (347 (descr.), depository: MNHU)*.

Holopyga gloriosa f. chrysonota: Tsuneki 1947: 45 (cat.), 46 (China: Beijing, Inner Mongolia, tax., distr.).

Holopyga chrysonota: Linsenmaier 1959: 30 (key), 32 (tax., descr.), 197 (fig. 34); Kimsey and Bohart 1991: 227 (fig. 68a), 230 (cat.); Kurzenko and Lelej 2007: 1004 (China, cat.).

Distribution. China (Beijing, Inner Mongolia). Widely distributed in the Palaearctic Region (Kurzenko and Lelej 2007).

Remarks. The identification of this taxon is dubious because Tsuneki (1947) did not separate ignicollis Dahlbom, 1854 from chrysonota (Förster, 1853). The two were later recognized as valid species by Linsenmaier (1959), who provided both a key and characteristics to distinguish them from one another. The specific name Chrysis gloriosa Fabricius (=Holopyga gloriosa) was suppressed by ICZN (1998).

62. Holopyga generosa (Förster, 1853)

http://species-id.net/wiki/Ellampus_generosus

Ellampus generosus Förster, 1853: 349. Syntypes ♂, Germany: Aachen (349 (descr.), depository: MNHU)*.

Holopyga ovata Dahlbom, 1854: 51. Syntypes, Italy, Austria, Prussia, Sweden (51 (descr.), depositories: MRSN, MNHU, LZM)*. Linsenmaier 1959: 29 (key), 31 (China, tax., descr.) (synonymised by Linsenmaier 1997a).

Holopyga fastuosa generosa: Linsenmaier 1997a: 250 (China, tax.); Linsenmaier 1997b: 32 (figs 10, b4, c5), 33 (key), 57 (China, tax., descr., distr.).

Holopyga generosa: Rosa 2006: 39 (ecol.), 41 (ecol.), 42 (ecol.), 52 (ecol.), 55 (distr.), 78 (cat.), 137 (key), 146 (tax., descr., distr.).

Distribution. China. Widely distributed in the Palaearctic Region (Linsenmaier 1959).

Remarks. Kimsey and Bohart (1991) considered Holopyga generosa a junior synonym of Holopyga chrysonota, while fastuosa and ovata synonyms of amoenula. Linsenmaier (1997a) considered generosa (Förster) as a subspecies of Holopyga fastuosa (Lucas).
63. *Holopyga ignicollis* Dahlbom, 1854
http://species-id.net/wiki/Holopyga_ovata_ignicollis

*Holopyga ovata* var. *ignicollis* Dahlbom, 1854: 53 (given as var. *h*). Syntypes ♀♂, Greece, Rhodes, Austria (53 (descr.), depositories: NHMW, MNHU)*.
*Holopyga gloriosa* var. *aureomaculata* Abeille de Perrin, 1879: 32. Syntypes ♀♂, France: Marseille (32 (descr.), depository: MNHN)*.
*Holopyga gloriosa* var. *aureomaculata*: du Buysson 1900: 128 (China: Beijing, cat.).

**Distribution.** China (Beijing). Central and southern Europe, North Africa, Turkey (Linsenmaier 1959).

**Remarks.** *Holopyga aureomaculata* Abeille is recognized to be the male of *H. ignicollis* Dahlbom. This is a dubious identification, which can perhaps be referenced to *H. chrysonota*. In Kimsey and Bohart (1991: 230) *H. ignicollis* is synonym of *H. chrysonota*, but the two species are clearly distinct.

11. **Genus Omalus** Panzer, 1806

64. *Omalus aeneus* (Fabricius, 1787)
http://species-id.net/wiki/Chrysis_aenea
Plates 17, 18

*Chrysis aenea* Fabricius, 1787: 284. Holotype ♀, Germany: Halle “*Halae Saxonum*” (284 (descr.), depository: ZMU)*.
*Omalus aeneus* var. *pygialis* du Buysson, 1887: 170. Syntypes ♀♂; China, Caucasus (170 (descr.), depository: MNHN).
*Ellampus aeneus* var. *pygialis*: Mocsáry 1889: 98 (China, descr.); Dalla Torre 1892: 8 (China, cat.); Bischoff 1913: 8 (China, cat.).
*Ellampus sauteri* Mocsáry, 1913b: 613. Holotype ♀, Taiwan, Taihorinsho (613 (descr.), 619 (Taiwan, cat.), depository: HNHM)*.
*Ellampus sauteri*: Uchida 1927: 150 (Taiwan, cat.); Uchida 1933: 1 (Taiwan, cat.).
*Philoctetes sauteri*: Tsuneki 1946: 35 (Manchuria, Taiwan).
*Omalus* (*Omalus*) *sauteri*: Linsenmaier 1959: 15 (key), 19 (Taiwan, tax., descr., punctulatus group).
*Omalus aeneus* sauteri*: Tsuneki 1970b: 1 (Taiwan: Nantou Prov.: Chienching Wushe (1800m), tax., descr.).
*Omalus aeneus*: Kimsey and Bohart 1991: 245 (Taiwan, cat., fig. 76g); Wei et al. 2014b: 31 (key), 32 (China: Inner Mongolia, Helanshan: Gulaben, Dayanggou, Halawuchagou, Shuimogou, Qianggangling, Halawuchagou; Taiwan, descr., tax.), 33 (pl. 1), 34 (pl. 2A–2F), 35 (pl. 3), 36 (pl. 4A–4F).

**Distribution.** China (Inner Mongolia, Taiwan). In literature the records for mainland China are listed under the name *pygialis* du Buysson and the Taiwanese citations are
listed under the name *sauteri*. It is widely distributed in the Palearctic from Europe to the Russian Far East and in the Nearctic, where it is very likely to have been introduced via commerce (Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

**Remarks.** Du Buysson described *pygialis* based on two syntypes collected in China and Caucasus: “Deux exemplaires ♂♀: Chine, Caucase” [not Chinese Caucasus as listed in Kimsey and Bohart, 1991]. Tsuneki (1946) considered *Ellampus potanini* as synonym of *sauteri*.

65. *Omalus berezovskii* (Semenov-Tian-Shanski, 1932)
http://species-id.net/wiki/Ellampus_berezovskii
Plate 19

*Omalus* (*Dictenulus*) *berezovskii* Semenov-Tian-Shanski, 1932: 12. Holotype ♀, China: Sichuan: Cho-dzi-gou, Lun-ngan-fu (12 (descr.), depository: ZIN)*. *Omalus berezovskii*: Kimsey and Bohart 1991: 247 (China: Setshuan [= Sichuan], cat.); Wei et al. 2014b: 31 (key), 35 (China: Ningxia, Liupanshan Forest Park, tax.), 36 (pl. 4, descr.), 37 (pl. 5), 38 (pl. 6A–6F).

**Distribution.** China (Ningxia, Sichuan).

66. *Omalus helanshanus* Wei, Rosa, Liu & Xu, 2014
http://species-id.net/wiki/Omalus_helanshanus

*Omalus helanshanus* Wei, Rosa, Liu & Xu, 2014: 39. Holotype ♂, China: Inner Mongolia, Helanshan, Gulaben (32 (key), 39 (type series: Inner Mongolia, Helanshan, Gulaben, Dayanggou; Shuimogou; Habeigou, Huangliangzi; Halawuchagou; Halawubeigou; Halawu, descr.), 40 (pl. 7), 41 (pl. 8A–8F), depository: SCAU)*.

**Distribution.** China (Inner Mongolia).

67. *Omalus imbecillus* (Mocsáry, 1889)
http://species-id.net/wiki/Ellampus_imbecillus
Plate 20

*Ellampus imbecillus* Mocsáry, 1889: 98. Lectotype ♂ design. by French (in Bohart and French 1986: 341), Turkmenistan: Pendgikent (depository: HNHM)*. *Holophris imbecillus*: Kimsey and Bohart 1991: 225. *Omalus imbecillus*: Rosa 2005: 12; Wei et al. 2014b: 31 (key), 41 (tax.), 42 (China: Yunnan, Kaiyuannan River; Gaoligonsan National Nature Reserve, descr., pl. 9), 43 (pl. 10A–10F).
**Distribution.** China (Yunnan). Laos, Russia, Turkey, Iran (Kimsey and Bohart 1991; Rosa et al. 2013).

**68. Omalus potanini** (Semenov-Tian-Shanski, 1932)
http://species-id.net/wiki/Ellampus_potanini
Plate 21

*Ellampus (Dictenulus) potanini* Semenov-Tian-Shanski, 1932: 11. Lectotype ♂ design. by Kimsey (1986: 107), China: Sichuan: river Sjao-tzhin-cho (11 (type series: China: Sichuan: river Sjao-tzhin-cho; river Fu-bjan cho, Chun-shujgu, Li-fan, descr.), depository: ZIN)*.

*Philoctetes (Holophris) potanini* Tsuneki 1953a: 55 (West China: Setshuan and Manchuria, tax., distr.).

*Ellampus potanini* Kimsey 1986: 107 (China: Setchuan [= Sichuan]: Sjao-tzhin-cho, lectotype design.).

*Omalus potanini* Kimsey and Bohart 1991: 249 (China: Setchuan [= Sichuan], cat.);
Wei et al. 2014b: 32 (key), 44 (China: Liaoning, Sichuan, tax., descr.).

**Distribution.** China (Liaoning, Sichuan).

**Remarks.** Only two specimens erroneously labelled as paratypes and collected in the same place (Sichuan: river Sjao-tzhin-cho, leg. Potanin) are present in the Semenov collection. We don’t know whether the lectotype label or the lectotype is lost.

**69. Omalus probiaccinctus** Wei, Rosa, Liu & Xu, 2014
http://species-id.net/wiki/Omalus_probiaccinctus

*Omalus probiaccinctus* Wei, Rosa, Liu & Xu, 2014: 44. Holotype ♀, China: Guizhou, Suiyang, Kuankuoshui National Reserve (31 (key), 44 (tax.), 45 (descr., pl. 11), 46 (pl. 12A–12F), depository: SCAU)*.

**Distribution.** China (Guizhou).

**70. Omalus pseudoimbecillus** Wei, Rosa, Liu & Xu, 2014
http://species-id.net/wiki/Omalus_pseudoimbecillus

*Omalus pseudoimbecillus* Wei, Rosa, Liu & Xu, 2014: 44. Holotype ♀, China: Yunnan, Yimen, Longquan Park (31 (key), 47 (type series: Yunnan, Yimen, Longquan Park; Yunlong, Tianchi National Nature Reserve; Jingdong, Jingping, tax., pl. 13), 48 (pl. 14A–14F), 49 (descr.), depository: SCAU)*.

**Distribution.** China (Yunnan).
71. *Omalus tibetanus* Wei, Rosa, Liu & Xu, 2014  
http://species-id.net/wiki/Omalus_tibetanus

*Omalus tibetanus* Wei, Rosa, Liu & Xu, 2014: 49. Holotype ♀, China: Tibet, Chayu, Cibagou (31 (key), 49 (tax.), 50 (descr., pl. 15), 51 (pl. 16A–16F), 49 (descr.), depository: SCAU)*.

**Distribution.** China (Tibet).

12. **Genus Philoctetes** Abeille de Perrin, 1878

72. *Philoctetes deauratus* (Mocsáry, 1914), n. comb.  
http://species-id.net/wiki/Ellampus_deauratus

*Ellampus deauratus* Mocsáry, 1914: 2. Holotype ♀, China: Tientsin [= Tianjin] (2 (descr.), depository: BMNH).

*Ellampus deauratus*: Tsuneki, 1947: 45 (North China: Tieng-tsing [= Tianjin], comp. notes); Tsuneki, 1948a: 119 (comp. notes).

*Omalus (Omalus) deauratus*: Linsenmaier 1959: 20 (China, tax., pusillus group).

*Pseudomalus deauratus*: Kimsey and Bohart 1991: 267 (China: Tientsin, cat.).

**Distribution.** China (Tianjin) (Mocsáry 1914).

**Remarks.** After the examination of other specimens labeled as types of *E. deauratus* by Mocsáry in the HNHM, we have included this taxon in the genus *Philoctetes* Abeille, based on the characteristics given by Kimsey and Bohart (1991).

73. *Philoctetes duplipunctatus* (Tsuneki, 1948)  
http://species-id.net/wiki/Chrysellampus_duplipunctatus

*Chrysellampus near harmandi*: Tsuneki 1946: 33 (China: Shanxi, tax.).

*Chrysellampus duplipunctatus* Tsuneki, 1948a: 120. Holotype ♀, China: Shanxi, Wutai Shan (120 (descr.), 122 (Wutaishan, comp. notes), 128 (Shanxi, cat.), pl. 7 (figs A, B), pl. 8 (figs A–E), depository: KUM).

*Chrysellampus duplipunctatus* f. *suzukii* Tsuneki, 1948a: 122. Holotype ♀, China: Shanxi, Yangchêng (122 (descr.), 128 (cat.), depository: KUM).

*Chrysellampus duplipunctatus* f. *variegatus* Tsuneki, 1950: 63. Syntypes ♂♀, Korea, Manchuria: Kay-juan (63 (descr.), depository: NIAS).

*Chrysellampus duplipunctatus*: Tsuneki 1953a: 55 (Manchuria: Kaiyüan, tax.); Tsuneki 1953b: 23 (North China, Manchuria, tax.).

*Chrysellampus duplipunctatus* f. *variegatus*: Tsuneki 1953a: 55 (Manchuria: Kaiyüan, distr., cat.); Tsuneki 1953b: 23 (tax.).

*Omalus (Chrysellampus) duplipunctatus*: Linsenmaier 1959: 22 (China, tax., descr.).
**Philoctetes duplipunctatus**: Kimsey and Bohart 1991: 255 (China, cat.); Kurzenko and Lelej 2007: 1004 (China, cat.).

**Distribution.** China (Liaoning, Jilin, Shanxi). Korea and Russian Far East (Tsuneki 1953b; Kurzenko and Lelej 2007; Lelej and Kurzenko 2012).

**Remarks.** Kimsey and Bohart (1991) considered the forms *Philoctetes duplipunctatus* f. *suzukii* and *P. duplipunctatus* f. *variegatus* invalid names. However, according to the ICZN, the two names are indeed valid.

74. *Philoctetes heros* (Semenow, 1892)
http://species-id.net/wiki/Elampus_heros
Plate 22

*Elampus heros* Semenow, 1892c: 71. Holotype ♀, China: Alaschan, (71 (descr.), depository: ZIN)*.

*Elampus heros*: Bischoff 1913: 8 (China, cat.).

*Chrysellampus heros*: Semenov-Tian-Shanskij 1932: 5 (descr., typus gen.).

*Omalus (Chrysellampus) heros*: Linsenmaier 1959: 22 (typus subgen.).

*Philoctetes heros*: Kimsey and Bohart 1991: 255 (China: Alaschan, cat.).

**Distribution.** China (Inner Mongolia).

75. *Philoctetes horvathi* (Mocsáry, 1889)
http://species-id.net/wiki/Ellampus_horvati
Plate 23

*Ellampus wesmaeli* Mocsáry, 1882: 27. Lectotype ♀ design. by Móczár (1964a: 434), Hungary (27 (descr.), 80 (cat.) depository: HNHM)*, nec Chevrier, 1862.

*Ellampus horváthi (!) Mocsáry, 1889: 82. Replacement name for *Ellampus wesmaeli* Mocsáry, 1882.

*Omalus (Omalus) horvathi (!): Dalla Torre 1892: 13 (cat.).

*Omalus (Omalus) horvathi*: Linsenmaier 1959: 15 (key, *horvathi* (!)), 19 (China, tax., *pusillus* group); Linsenmaier 1997a: 249 (tax., *pusillus* group).

*Omalus horvathi (!): Móczár 1964a: 434 (lectotype designation).

*Philoctetes horvathi*: Kimsey and Bohart 1991: 256 (cat.); Rosa et al. 2013: 13 (China, cat., distr.).

**Material examined.** 1 ex., Nan-Chan le Kan Tchegu à Lan Tcheou Dr. Vaillant 1909 / 2000 à 4000m Juillet 1908 (NMLS).
**Distribution.** China (Shanxi). Widely distributed in the Palaearctic Region from Europe and North Africa to Korea (Kimsey and Bohart 1991; Linsenmaier 1997a).

76. *Philoctetes mongolicus* (du Buysson, 1901), status revived
http://species-id.net/wiki/Ellampus_horvathi_mongolicus

*Ellampus horvathi* var. *mongolicus* du Buysson, 1901b: 98. Syntypes ♂♀, N Mongolia (98 (descr.), depository: NHMW)*.

*Ellampus horvathi* (!) var. *mongolicus*: du Buysson 1911: 219 (China: Nan Chan, Che Yeou Ho, tax.); Bischoff 1913: 8 (cat.).

*Notozus mongolicus*: Tsuneki 1948a: 116 (China: Shanxi: Wutaishan, tax., distr.), 128 (China: Shanxi, cat.).

*Omalus* (*Notozus*) *mongolicus*: Linsenmaier 1959: 16 (key), 23 (cat., *ambiguus* group).

*Philoctetes horvathi*: Kimsey and Bohart 1991: 256 (cat.).

**Distribution.** China (Shanxi). Widely distributed from Mongolia to Central Asia and southern Russia to Volga (Trautmann 1927).

**Remarks.** *P. mongolicus* was often erroneously considered belonging to the genus *Elampus* (= *Notozus*) due to its elongated metanotal projection. However, the metanotal projection is also present in various *Philoctetes* species (e.g.: *P. putoni* (du Buysson)). Kimsey and Bohart (1991) placed *P. mongolicus* under *P. horvathi*, even if Tsuneki and Linsenmaier considered it as a valid species. Type examination has confirmed that *P. mongolicus* is indeed a valid species.

77. *Philoctetes mordvilkoi* (Semenov-Tian-Shanskij, 1932), n. comb.
http://species-id.net/wiki/Ellampus_mordvilkoi
Plate 24

*Ellampus mordvilkoi* Semenov-Tian-Shanskij, 1932: 36. Holotype ♂, China: Xinjiang: Chotan, Sajbag (36 (descr.), depository: ZIN) *.

*Pseudomalus mordilkoi* (!): Kimsey and Bohart, 1991: 268 (China: Singkiang [= Xinjiang]: Chotan Sajbag, cat.).

**Distribution.** China (Xinjiang).

**Remarks.** *E. mordvilkoi* shows the main characteristics of the genus *Philoctetes sensu* Kimsey and Bohart (1991). The gena is not bisected by the genal carina, the punctuation on the mesosoma is more distributed along the notauli and the anal margin of the last metasomal tergite has a distinct brownish transparent rim with a wide median notch. Therefore, we have moved this taxon into the genus *Philoctetes* Abeille.
78. *Philoctetes praeteritorum* (Semenov-Tian-Shanskij, 1932)
http://species-id.net/wiki/Parellampus_praeteritorum
Plate 25

*Parellampus praeteritorum* Semenov-Tian-Shanskij, 1932: 7. Holotype ♀, China: Sichuan, Tadzinlu (7 descr.), depository: ZIN)*.
*Philoctetes praeteritorum*: Kimsey and Bohart, 1991: 257 (China: Setchuan [= Sichuan], cat.).

**Distribution.** China (Sichuan).

13. **Genus Pseudomalus** Ashmead, 1902

79. *Pseudomalus auratus* (Linnaeus, 1758)
http://species-id.net/wiki/Sphex_aurata

*Sphex aurata* Linnaeus, 1758: 572. Holotype ♀, Europe (572 (descr.), depository: LSL).

*Ellampus auratus* f. *maculatus* du Buysson, 1887: Tsuneki 1946: 33 (Manchuria, tax.), 38 (résumé).

*Ellampus auratus* var. *cupratus* Mocsáry, 1889: 92. Holotype ♂ [not ♀], Dalmatia (92 (descr.), depository: HNHM)*.

*Ellampus auratus* var. *cupratus*: du Buysson 1911: 219 (China: Nan Chan, Kan Tchéou, oasis Chan Kin Hia, Tien Chouei Tsing, Koua Tchéou Kéou tsé, tax.).

*Ellampus auratus* f. *nigridorsus* Tsuneki, 1950a: 63. Syntypes ♂♀, Japan, Korea, Manchuria (63 (descr.), depository: NIAS).

*Ellampus auratus* f. *nigridorsus*: Tsuneki, 1953a: 54 (Manchuria: Tâshonshan, cat., distr.).

*Omalus* (*Omalus*) *auratus* ssp. *nigridorsus*: Linsenmaier 1968: 9 (Manchuria, tax.).

*Omalus* (*Omalus*) *auratus*: Linsenmaier 1959: 14 (key), 17 (tax., descr., *auratus* group), 196 (figs 1–4).

*Pseudomalus auratus*: Kimsey and Bohart 1991: 263 (fig. 84), 264 (cat., figs 85d, 85i); Kurzenko and Lelej 2007: 1004 (China, cat.).

**Material examined.** Heilongjiang: 1 ex., Harbin, 18.VI.1944; 1 ex., 1.VIII.1945 Alin leg. (NMLS).

**Distribution.** China (Heilongjiang, Shanxi). Widely distributed in the Holarctic Region, beeing introduced into the Nearctic Region by commerce, very likely with multiple introductions (Krombein 1959; Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

**Host.** *Pemphredon rugifer* Dahlbom (Hymenoptera, Crabronidae) (Tsuneki 1970a).

**Biology.** The larval habits were studied by Tsuneki (1952).

**Remarks.** Kimsey and Bohart (1991) considered *Ellampus auratus* f. *nigridorsus* Tsuneki as an invalid name. However, it is a valid name according to the ICZN.
80. *Pseudomalus conradti* (Bischoff, 1910)
http://species-id.net/wiki/Ellampus_conradti

_Ellampus conradti_ Bischoff, 1910: 437. Syntypes ♂♀, Chinese Turkestan [= Xinjiang]: Tochta Chon, Jarkand (437 descr.), depository: MNHU*.

_Ellampus conradti_: Bischoff 1913: 8 (Chinese Turkestan [= Xinjiang], cat.).

*Pseudomalus conradti*: Kimsey and Bohart 1991: 267 (China, Singkiang [= Xinjiang], cat.).

**Distribution.** China (Xinjiang).

81. *Pseudomalus corensis* (Uchida, 1927)
http://species-id.net/wiki/Philoctetes_corensis

_Philoctetes punctatus_ var. _corensis_ Uchida, 1927: 153. Holotype ♂, Korea: Seiryori (153 descr.), depository: EIHU).

_Philoctetes corensis_: Uchida 1933: 1 (cat.).

_Ellampus corensis_: Tsuneki 1946: 33 (China: Shanxi, tax.); Tsuneki 1948a: 120 (type series: China: Shanxi: Takui, Nanpintsun, Henglingshan - Peihungkaokao, Wutai- 
han, tax., comp. notes, descr.), 128 (Shanxi, cat.); Tsuneki 1953a: 55 (North China, Manchuria [= Heilongjiang]: Harbin, Kaiyuan; Manchuria, tax., distr.); Tsuneki 1953b: 22 (North China, Manchuria, tax., aberr.).

_Omalus (Omalus) corensis_: Linsenmaier 1959: 17 (possible syn. of _Omalus joannis_(du Buysson, 1908), auratus group).

*Pseudomalus corensis*: Kimsey and Bohart 1991: 268 (synonym of _Pseudomalus punctatus_ (Uchida, 1927)).

**Distribution.** China (Heilongjiang, Liaoning, Shanxi). Korea (Uchida, 1927).

**Remarks.** Kimsey and Bohart (1991) placed _Philoctetes punctatus_ var. _corensis_ Uchida in the junior synonymic list of _Pseudomalus punctatus_ (Uchida, 1927). However, Tsuneki examined the material collected by Uchida and considered _P. corensis_ a valid species. We follow the latter interpretation.

82. *Pseudomalus hypocritus* (du Buysson, 1893), n. comb.
http://species-id.net/wiki/Ellampus_hypocrita

_Ellampus hypocrita_ du Buysson, 1893: 246. Syntype ♂, Mongolia [= China]: Kansu- Yelisyn-Kuse (246 descr.), depositories: ISEA-PAS, MNHN*.

_Ellampus hypocrita_: du Buysson 1911: 218 (China: Nan Chan, Chan Kin Hia, Tien Chouei Tsing, Koua Tchéou Kéou tsé, tax.); Bischoff 1913: 8 (Mongolia [= China], cat.).

_Omalus hypocrita_: Kimsey and Bohart 1991: 248 (cat.).
Distribution. China (Gansu, Shanxi).

Remarks. After the examination of the syntype specimen in the Radoszkowski collection in ISEA-PAS, we have confirmed that the species belongs to the genus *Pseudomalus* Ashmead *sensu* Kimsey and Bohart (1991).

83. *Pseudomalus joannisi* (du Buysson, 1908)
http://species-id.net/wiki/Ellampus_joannisi

*Ellampus joannisi* du Buysson, 1908: 207. Holotype ♀, China: Nanking [= Nanjing] (207 (descr.), depository: MNHN)*.
*Ellampus joannisi*: Bischoff 1913: 8 (Japan [= China], cat.); Tsuneki 1946: 32 (tax).
*Omalus (Omalus) joannisi*: Linsenmaier 1959: 17 (China, Manchuria [= Heilongjiang], tax., descr., comp. notes).
*Pseudomalus joannisi*: Kimsey and Bohart 1991: 268 (China: Nanking, cat.).

Material examined. Heilongjiang: 2♀♀, Harbin, 15.VII.1943; 1♂, 1♀, id., 9.VII.1944; 1♀, id., 9.VII.1944; 1♀, id., 10.VII.1949; 3♀♀, 8♀♀, id., 25.VI.1950; 1♂, 1♀, id., 28.VII.1950; 2♀♀, id., 21.VIII.1950; 2 exc., id., 20.VII.1953 all the specimens were collected by Alin (NMLS).

Distribution. China (Heilongjiang, Jiangsu). Korea (Kimsey and Bohart 1991).

84. *Pseudomalus sinensis* (Tsuneki, 1947)
http://species-id.net/wiki/Ellampus_sinensis

*Ellampus sinensis* Tsuneki, 1947: 44. Holotype ♀; China: Beijing (44 (descr.), 45 (Beijing, comp. notes), depository: OMNH, not NIAS).
*Ellampus sinensis* f. *viridiauratus* Tsuneki, 1948a: 118. Syntypes ♂♀♀, China: Henglingshan-Beihungkaokao, Wutaishan, Yangchéng (118 (descr.), 119 (China: Shanxi: Yangchéng, Wutaishan, Henglingshan-Beihungkaokao, comp. notes), 128 (cat.), depository: KUM?).
*Ellampus sinensis* f. *nigricans* Tsuneki, 1948a: 119. Holotype ♂, China: Kiu-Taiyüan (119 (descr.), 128 (cat.), depository: KUM?).
*Ellampus sinensis*: Tsuneki 1948a: 128 (China: Beijing district, cat.).
*Omalus (Omalus) sinensis*: Linsenmaier 1959: 20 (China, tax., *pusillus* group).
*Pseudomalus sinensis*: Kimsey and Bohart 1991: 269 (China, cat.).

Distribution. China (Beijing, Shanxi).

Remarks. Kimsey and Bohart (1991) considered *Ellampus sinensis* f. *nigricans* Tsuneki and *E. sinensis* f. *viridiauratus* Tsuneki as invalid names. However, the two names are valid according to the ICZN.
85. *Pseudomalus triangulifer* (Abeille, 1877)

http://species-id.net/wiki/Omalus_triangulifer
Plate 26

*Omalus triangulifer* Abeille, 1877: 65. Lectotype ♀ design. by Kimsey (1986: 106); France: St. Baume (depository: MNHN)*.

*Omalus* (*Omalus*) *triangulifer*: Linsenmaier 1959: 14 (key), 17 (tax., descr.), 196 (figs 5, 6); Linsenmaier 1997a: 248 (China: Gansu, cat.).

*Ellampus auratus triangulifer* (!): Kimsey 1986: 106 (lectotype design.).

*Pseudomalus triangulifer*: Kimsey and Bohart 1991: 269 (cat.); Rosa 2006: 78 (cat.), 108 (key), 113 (China, tax., descr.).

**Distribution.** China (Gansu). Widely distributed in the Palaearctic Region (Linsenmaier 1959, 1968, 1987, 1997a).

86. *Pseudomalus tshingiz* (Semenov-Tian-Shanskij, 1954)

http://species-id.net/wiki/Ellampus_tshingiz
Plate 27

*Ellampus tshingiz* Semenov-Tian-Shanskij (in Semenov-Tian-Shanskij and Nikol’skaja), 1954: 93. Holotype ♂, Sandzhu [Xinjiang], Gushan Gobi (depository: ZIN)*.

*Pseudomalus tshingiz*: Kimsey and Bohart 1991: 264 (fig. 85a), 270 (cat.).

**Distribution.** China (Xinjiang).

**Remarks.** The type (according to the original description and labels) is from the Oasis Sandzhu [Xinjiang], Gushan Gobi and not from [Kansu]: Sachow Gobi (as reported in Kimsey and Bohart 1991).

87. *Pseudomalus violaceus* (Scopoli, 1763)

http://species-id.net/wiki/Sphex_violacea

*Sphex violacea* Scopoli, 1763: 298. Holotype ♀, Italy: Trieste (298 (descr.), depository: lost).

*Ellampus violaceus* f. *virens* Mocsáry, 1889: Tsuneki 1953a: 54 (cit.).

*Ellampus violaceus*: Tsuneki 1953a: 54 (Manchuria [= Inner Mongolia]: Hairar, tax., distr.).

*Omalus* (*Omalus*) *violaceus*: Linsenmaier 1959: 14 (key), 17 (tax., descr., *auratus* group); Linsenmaier 1997b: 31 (key), 48 (Manchuria, tax., descr., fig. 16).

*Omalus violaceus*: Móczár 1967: 30 (Manchuria, key, tax., descr., distr.); Banaszak 1980: 9 (tax., biol., distr.).

*Pseudomalus violaceus*: Kimsey and Bohart 1991: 264 (fig. 85g), 270 (cat.).
**Distribution.** China (Inner Mongolia). Widely distributed in the Palaearctic Region (Kimsey and Bohart 1991).

**Remarks.** The identification by Tsuneki (1953a) should be double-checked. The specimen may be related to *P. bergi* Semenov-Tian-Shanski, 1932.

### Tribe Chrysidini

#### 14. Genus *Chrysidea* Bischoff, 1913

88. *Chrysidea pumila* (Klug, 1845)

http://species-id.net/wiki/Chrysis_pumila

*C. pumila* Klug, 1845: tab. 45, fig. 13. Type, Sudan: Ambukohl (type lost).

*Chrysidea pumila* Bischoff 1913: 34 (cat., typ. gen.); Hammer 1936: 3 (China [Xinjiang]: Urumchi [= Ürümqi], cat.); Kimsey and Bohart 1991: 314 (cat.).

**Material examined.** 2 ♀♀, Harare: Ketmen, Thian Chan Occid. Monts Sussamyr Ketmen Tjube M. Pic. 1914. The specimens were collected close to the Kyrgyzstan border (Sussamyr Mt.).

**Distribution.** China (Xinjiang). Widely distributed in the Palaearctic Region (Kimsey and Bohart 1991).

15. Genus *Chrysis* Linnaeus, 1761

89. *Chrysis aegle* Semenov-Tian-Shanski, 1967

http://species-id.net/wiki/Chrysis_aegle

*Chrysis* (Gonodontochrysis) *aegle* Semenov-Tian-Shanski, 1967: 160. Holotype ♀, North China: Alashan, Maladzhin (depository: ZIN)*.

*Chrysis aegle*: Kimsey and Bohart 1991: 379 (Mongolia [= Inner Mongolia]: Alashan, cat.).

**Distribution.** China (Inner Mongolia).

**Remarks.** *C. aegle* belongs to the *bihamata* group.

90. *Chrysis alticata* Bohart, 1991

http://species-id.net/wiki/Chrysis_alticata

*Chrysis* (*Tetrachrysis*) *alticola* Mocsáry, 1914: 42. Holotype ♀, Tibet: Gyangtse, 13.000 ft. (depository: BMNH) *nec* Semenov-Tian-Shanski 1912.
**Chrysis alticata** Bohart (in Kimsey and Bohart), 1991: 381. Replacement name for *Chrysis alticola* Mocsáry, 1914, *nec* Semenov-Tian-Shanski 1912 (*ignita* group).

*Chrysis alticata*: Kurzenko and Lelej 2007: 1005 (China, cat.).

**Distribution.** China (Tibet).

91. *Chrysis angolensis* Radoszkovsky, 1881

[http://species-id.net/wiki/Chrysis_angolensis](http://species-id.net/wiki/Chrysis_angolensis)

*Chrysis fuscipennis* Brullé, 1846: 38. Holotype ♀, Philippine (depository: MNHN), *nec* Dahlbom, 1829.

*Chrysis janthinus* (!) Smith, 1874b: 459. Holotype ♀, China: Shanghai (459 (descr.), depository: BMNH) *nec* Förster, 1853.

*Chrysis angolensis* Radoszkovsky, 1881: 219. Holotype, Angola (219 (descr.), type lost ?).

*Chrysis erratica* du Buysson, 1887: 189. Syntypes ♂♀, China, Egypt (189 (descr.), depository: MNHN?) (synonymised by Mocsáry 1889: 370).

*Chrysis* (*Tetrachrysis*) *janthina*: Mocsáry 1889: 374 (China, descr.); Bischoff 1913: 54 (North China, cat.).

*Chrysis janthina*: Dalla Torre 1892: 66 (China, cat.).

*Chrysis fuscipennis*: du Buysson (in André) 1895: 443 (China, tax., descr., distr.); du Buysson 1898a: 529 (China: Kiang-si, North Beijing, cat., distr.); du Buysson 1899: 165 (China, cat., distr.); du Buysson 1900: 153 (China: Beijing, cat.); du Buysson 1901b: 101 (Central China, cat.); Bingham 1903: 386 (key), 467 (tax., descr.), 468 (China, distr.); Linsenmaier 1959: 149 (*fuscipennis* group).

*Chrysis* (*Tetrachrysis*) *fuscipennis*: Mocsáry 1913b: 614 (Taiwan); Uchida 1927: 151 (Taiwan, cat.); Tsuneki 1947: 55 (China: Beijing, Taiwan, cat., distr.); Tsuneki 1948a: 125 (Manchuria: Yangchêng, Taiwan, tax.), 128 (Beijing distr., Manchuria, Taiwan, cat.); Tsuneki 1953a: 59 (China: Beijing, Formosa, cat., distr.); Tsuneki 1953b: 26 (North China, tax., distr.). Tsuneki 1970b: 13 (Taiwan: Ilan Province: Tsukeng, Chuantou; Taipei Province: Ulai, Kueishanlu; Nantou Province: Puli; Chiai Province: Chuchi; Taitung Province: Chihpenchi; Pingtung Province: Sunchungchi, Fanshanlu, Manchou, cat.).

*Chrysis fuscipennis* var. *murasaki*: Uchida, 1927: 155. Syntypes ♂♂♀♀, Japan, Korea (155 (descr.), depository: EIHU).

*Tetrachrysis fuscipennis*: Hammer 1950: 2 (China: Kiangsu [= Jiangsu], cat.).

*Chrysis fuscipennis* var. *takanoi*: Tsuneki, 1950: 78. Holotype ♀, Taiwan: Shinka (78 (descr.), depository: NIAS).

*Chrysis* (*Tetrachrysis*) *fuscipennis* *murasaki*: Tsuneki 1953a: 59 (Manchuria: Sungari, Kunchun, cat., distr.); Tsuneki 1953b: 26 (North China, Manchuria, tax., distr.).

*Chrysis* (*Chrysis*) *fuscipennis* *murasaki*: Linsenmaier 1959: 149 (North China, Manchuria, descr., distr.); Tsuneki 1961: 376 (Manchuria, cat.).

*Chrysis* (*Chrysis*) *fuscipennis* *fuscipennis*: Tsuneki 1970c: 48 (Taiwan, key, tax.).
Chrysis angolensis: Kimsey and Bohart 1991: 319 (tax.), 336 (110), 337 (tax.), 357 (fig. 113c), 383 (cat., angolensis group); Kurzenko and Lelej 2007: 1005 (China, cat.); Terayama et al. 2010: 3 (China, cat.), 4 (figs.), 12 (tab., biol.).

Material examined. 1♀, Museum Paris Checkiang Hangtchéou A. Pichon 1925; 1♀, China Ning Po V.36 Coll. Linsenmaier; 1♀, Museum Paris Kouy-Tchéou Cavalerie 1921; 1♀, Museum Paris Chine Nan-King J. de Joannis 1908; 1♀, N Formosa Chipon Aug. 1935 K. Iwata, all the specimens identified by Linsenmaier in 1959 as Chrysis fuscipennis Brullé. The following specimens were identified by Linsenmaier in 1974 and 1979 as Chrysis fuscipennis murasaki Uchida: 2 ♀♀, Mandschurie Maoerschan, 20.–30.VII.1939; 1♀, Mandschurie Maoerschan, 5.8.40; 1♂ and 10♀♀, Maoerschan, 5–10.VIII.1939 Mandschurie; 11♀♀, China: Manchuria. Maoershan 100 Km E. Harbin on Chinese Eastern Railway, 18.VIII.1941 V.N. Alin, Coll.; 2♂♂, Chusan China Juni 1948 Collect. Naef; 5♀♀, Mandschurie Charbin 9.VII.1944 W. Alin leg (all specimens in NMLS). 1♀, Sichuan, Tzitun, 16.IX.1893, leg. Potanin (ZIN); 1♀, Nin-sia-fu, Yellow river valley, 4.–16.VI.1908, leg. Kozlov (ZIN); 2♀♀, Lyu-li-he, 65 km SW Beijing, 14.–17.VIII.1913, leg. Vasiliev (ZIN); 1♀, Harbin, 19.VI.1911, leg. Emelyanov (ZIN); Imanpo (Manchuria), 20.VI.1911, leg. Emelyanov (ZIN); 1♀, env. Beijing, VII.1916 (ZIN).

Distribution. China (Heilongjiang, Jilin, Beijing, Shanxi, Shanghai, Jiangsu, Zhejiang, Jiangxi, Taiwain, Guizhou, Sichuan). World-wide except Europe (Kimsey and Bohart 1991).

Remarks. Hosts are Chalybion japonicum, Sceliphron mandraspatanum, and S. deforme (Hymenoptera, Sphecidae) (Tereyama et al. 2010).

92. Chrysis angustula Schenck, 1856
http://species-id.net/wiki/Chrysis_angustula

Chrysis angustula Schenck, 1856: 30. Lectotype ♀ design. by Morgan (1984: 9), Germany: former Duchy of Nassau (depository: SMFD).

Chrysis (Chrysis) angustula: Linsenmaier 1959: 151 (key), 159 (tax., descr., ignita group), 217 (fig. 697).

Chrysis angustula: Kimsey and Bohart 1991: 383 (cat., ignita group).

Chrysis angustula gracilis: Linsenmaier 1997b: 124 (China, Manchuria, tax., descr., ignita group).

Material examined. 1♀, Sjaolin [= Henan: Shaolin], 25.VIII.1940; Heilongjiang: 1♀, Harbin, 9.VII.1944, leg. Alin; 1♀, Harbin, 25.VII.1950 leg. Alin; 2♀♀, Maoershan, 100 Km E Harbin on Chinese Eastern Railway, 18.VIII.1941 V.N. Alin, coll.; all the specimens identified by Linsenmaier and Niehuis in 1998 as Chrysis angustula Schenck.

Distribution. China (Heilongjiang, Jilin, Henan). Europe and Siberia (Kimsey and Bohart 1991).
93. Chrysis asahinai Tsuneki, 1950
http://species-id.net/wiki/Chrysis_asahinai

Chrysis asahinai Tsuneki, 1950a: 80. Holotype ♀, Manchuria (80 (descr.), depository: OMNH).
Chrysis asahinai: Tsuneki 1953a: 59 (Manchuria: Ouri near Liaoyüanchow, cat.), 60 (figs 2A, 2B); Kimsey and Bohart 1991: 385 (cat., pulchella group); Kurzenko and Lelej 2007: 1005 (Northeast China, cat.).
Chrysis (Chrysis) asahinai: Linsenmaier 1959: 103 (Manchuria, key, tax., pulchella group).

Distribution. China (Liaoning).

94. Chrysis buda Bohart, 1991
http://species-id.net/wiki/Chrysis_buda
Plate 29

Chrysis (Tetrachrysis) buddhae Semenov-Tian-Shanskij, 1967: 179. Holotype ♀, North China: Inner Mongolia (179 (descr.), depository: ZIN)* nec Mocsáry, 1913a.
Chrysis buda Bohart (in Kimsey and Bohart), 1991: 392. Replacement name for Chrysis buddhae Semenov-Tian-Shanskij, 1967 nec Mocsáry, 1913a (cat., ignita group).
Chrysis buda: Kurzenko and Lelej 2007: 1005 (China: Hubei, cat.).

Distribution. China (Inner Mongolia, Hubei).
Remarks. The specimen labeled as type was collected on the 20.V.1908 by Kozlov (and not 20.VI.1908 as written in the original description) in Alashan, Tzosto Canyon and not Gansu.

95. Chrysis buddhae Mocsáry, 1913
http://species-id.net/wiki/Chrysis_buddhae
Plate 30

Chrysis (Hexachrysis) buddhae Mocsáry, 1913a: 25. Lectotype ♂, design. by Bohart (in Bohart and French 1986: 341), Taiwan: Takao [= Kaohsiung] (depository: HNHM)*.
Chrysis (Hexachrysis) buddhae: Mocsáry 1913b: 619 (China, Taiwan: Takao, cat.); Bischoff 1913: 64 (China, Taiwan, cat.); Uchida 1927: 152 (China, Taiwan, cat.); Tsuneki 1963a: 1 (China, Taiwan, key), 5 (tax., comp. notes), 6 (China, Taiwan, comp. notes).
Chrysis buddhae: Kimsey and Bohart 1991: 392 (Taiwan, cat., smaragdula group).

Material examined. 1♀, Taiwan, Taihanroku, 8–18.IV.1908, leg. H. Sauter, Chrysis buddhae Semenov det. Linsenmaier 1973 (NMLS) [Linsenmaier confused the name of the authors].
**Distribution.** China (Taiwan). Borneo, India (Kimsey and Bohart 1991).

**Remarks.** The specimen listed as *Chrysis (Hexachrysis) buddhae* by Uchida (1927) was considered as *C. takasago* Tsuneki, 1963 (Tsuneki 1963a).

### 96. *Chrysis carnifex* Mocsáry, 1889

http://species-id.net/wiki/Chrysis_carnifex

Plate 31

*Chrysis (Tetrachrysis) carnifex* Mocsáry, 1889: 517. Holotype ♂, China: Ta-tschiansy (517 (descr.), depository: HNHM)*.

*Chrysis (Tetrachrysis) carnifex:* Mocsáry 1890a: 63 (China borealis, cat.); Bischoff 1913: 49 (North China, cat.); Uchida 1927: 151 (North China, cat.); Tsuneki 1948a: 125 (China, cat., synonym of *Chrysis chrysochlora* Mocsáry, 1889); Tsuneki 1948b: 48 (North China: Shanxi, tax.).

*Chrysis carnifex:* Dalla Torre 1892: 49 (China, cat.); Kimsey and Bohart 1991: 394 (China, cat., *ignita* group); Kurzenko and Lelej 2007: 1005 (China, cat.).

**Distribution.** China (Shanxi).

**Remarks.** The type of *Chrysis (Tetrachrysis) carnifex* shares most of the characteristics with the type of *Chrysis keriensis* Mocsáry, which is the male of *Chrysis chrysochlora* Mocsáry. The main difference is found in the punctuation on the mesosoma and on the first two metasomal tergites. Tsuneki (1948a, 1948b) considered *Chrysis (Tetrachrysis) carnifex* Mocsáry as a junior synonym of *Chrysis chrysochlora* Mocsáry, 1889.

### 97. *Chrysis cavaleriei* (du Buysson, 1908)

http://species-id.net/wiki/Tetrachrysis_cavalerieri

Plate 32

*Tetrachrysis Cavalierii* du Buysson, 1908: 211. Holotype ♀, China: Kouy-Tchéou [= Guizhou]: Kouy-Yang (211 (descr.), depository: MNHN)*.

*Chrysis (Tetrachrysis) cavaleriei:* Bischoff 1913: 49 (China, cat.); Tsuneki 1953b: 27 (Middle China [= Guizhou]: Kouy-Yang, tax., descr.).

*Chrysis (Chrysis) cavaleriei:* Linsenmaier 1959: 112 (China, descr., distr., *succincta* group), 205 (fig. 422); Linsenmaier 1968: 69 (China, cat.).

*Chrysis cavaleriei:* Kimsey and Bohart 1991: 394 (China, cat., *succincta* group); Kurzenko and Lelej 2007: 1005 (China, cat.); Terayama et al. 2010: 8 (China, cat.).

**Distribution.** China (Guizhou). Korea (Tsuneki 1953b).
98. **Chrysis ceciliae du Buysson, 1904**
http://species-id.net/wiki/Chrysis_ceciliae
Plate 33

*Chrysis Ceciliae* du Buysson, 1904: 259. Holotype ♀, Java: Malang (259 (descr.), depository: MNHN)*.

*Chrysidea (Chrysogona) insulicola* Mocsáry, 1913b: 614. Holotype ♀, Taiwan: Takao (614 (descr.), 619 (Taiwan, cat.), depository: HNHM)* (synonymised by Kimsey and Bohart 1991: 395).

*Chrysis (Chrysogona) insulicola*: Uchida 1927: 151 (Taiwan, cat.); Uchida 1933: 2 (Taiwan, cat.).

*Chrysis (Chrysura) insulicola*: Tsuneki 1970b: 6 (Taiwan: Ssuchungchi, Taoyeh, tax., descr., figs 5–8).

*Chrysis ceciliae*: Kimsey and Bohart 1991: 321 (fig. 104b), 329 (fig. 107f), 336 (fig. 110f), 339 (tax., *ceciliae* group), 395 (Taiwan, cat., *ceciliae* group).

**Distribution.** China (Taiwan). Java, Philippines, Malaysia, Laos (Kimsey and Bohart 1991).

**Remarks.** Tsuneki (1970b) redescribed *Chrysidea (Chrysogona) insulicola* Mocsáry.

99. **Chrysis chinensis** Mocsáry, 1912
http://species-id.net/wiki/Chrysis_chinensis
Plate 34

*Chrysis (Tetrachrysis) ignita* var. *chinensis* Mocsáry, 1912b: 589. Holotype ♀, China: Shanghai (589 (descr.), depository: HNHM)*.

*Chrysis (Tetrachrysis) ignita* var. *chinensis* Bischoff, 1913: 53 (China, cat.); Trautmann 1927: 147 (China: Shanghai, cat.).

*Chrysis (Chrysis) chinensis*: Linsenmaier 1959: 158 (China, Manchuria, tax., descr., distr., *ignita* group), 205 (fig. 393); Linsenmaier 1997b: 39 (key), 113 (China, Manchuria, cat., descr., distr., *ignita* group, fig. 96).

*Chrysis chinensis*: Kimsey and Bohart 1991: 396 (China: Shanghai, cat., *ignita* group); Tarbinsky 2000: 195 (key), 202 (China, cat., distr.); Kurzenko and Lelej 2007: 1005 (China, cat.).

**Material examined.** Heilongjiang: 1 ♀, Harbin, 25.VI.1950 leg. Alin; 2♂♂, Harbin, 20.VII.1953, leg. Alin; 1♀, Harbin, 24.VI.1953 leg. Alin. All the specimens identified by Linsenmaier in 1959 (NMLS).

**Distribution.** China (Helongjiang, Shanghai).
100. *Chrysis chrysochlora* Mocsáry, 1889
http://species-id.net/wiki/Chrysis_chrysochlora
Plate 35

*Chrysis* (*Tetrachrysis*) *chrysochlora* Mocsáry, 1889: 589. Lectotype ♂ design. by Bohart (in Kimsey and Bohart 1991: 396), Uzbekistan: Tashkent (depository: HNHM)*.

*Chrysis viridans* Radoszkowski, 1891: 192. Holotype ♀, Turkmenistan, Ashkabad (192 (descr.), depository: ISEA-PAS).

*Chrysis* (*Tetrachrysis*) *chrysochlora*: Bischoff 1910: 483 (Chinese Turkestan [= Xinjiang]: Chotan-Kiljang, cat.); Tsuneki 1948a: 125 (China: Shanxi: Hengshuichen-Henglingkuan, cat.), 126 (tax., comp. notes, distr.), 128 (cat.).

*Chrysis* (*Chrysis*) *chrysochlora*: Linsenmaier 1959: 152 (key), 161 (China, tax., descr., distr., *ignita* group).

*Chrysis chrysochlora*: Kimsey and Bohart, 1991: 396 (cat.); Tarbinsky 2000: 193 (key), 197 (China, cat., distr.); Rosa et al. 2013: 17 (China, cat., distr.).

**Material examined.** 7♂♂ and 10♀♀ collected at: Alashan, Din-yuan-in, 3.–5.V.1908, 14.–28.V.1908, 31.V.1908, 3.VI.1908 and 23.–26.IV.1909, leg. Kozlov (ZIN); 1♀, Huan-He Valley, 6.–20.X.1908, leg. Kozlov (ZIN); 1♂, Gansu, Pin-fan, 21.–23.VIII.1908, leg. Kozlov; 1♀, env. Sinin, 1.IX.1908, leg. Kozlov (ZIN). All the specimens identified as *Chrysis viridans*.

**Distribution.** China (Xinjiang, Inner Mongolia, Gansu, Shanxi). Turkmenistan (Radoszkowski, 1891), Iran, Lebanon, Turkey, Turkmenistan (Linsenmaier 1959, 1968), Uzbekistan (Tarbinsky 2000).

101. *Chrysis comta* Förster, 1853
http://species-id.net/wiki/Chrysis_comta

*Chrysis comta* Förster, 1853: 314. Holotype ♂, Turkey (314 (descr.), depository: lost).

*Chrysis* (*Tetrachrysis*) *ignita* f. *comta*: Tsuneki 1948a: 126 (cat.), 127 (China: Shanxi: Luan-hsien, Nannpintsun, distr.), 128 (Shanxi, cat.).

*Chrysis* (*Chrysis*) *comta*: Linsenmaier 1959: 151 (key), 152 (key), 158 (Manchuria, tax., descr., distr., *ignita* group), 208 (fig. 500).

*Chrysis comta*: Móczár 1967: 111 (key, tax., descr.), 112 (Manchuria, distr.); Kimsey and Bohart 1991: 399 (cat., *ignita* group).

**Material examined.** Heilongjiang: 2♂♂, Harbin, 31.V.1943 leg. Alin; 1♂, Harbin, 20.VII.1953.

**Distribution.** China (Helongjiang, Shanxi). Europe, southern Russia (Linsenmaier, 1959).
102. **Chrysis consobrina** Mocsáry, 1889, status revived  
[http://species-id.net/wiki/Chrysis_consobrina](http://species-id.net/wiki/Chrysis_consobrina)  
Plate 36

*Chrysis consobrina* Mocsáry, 1889: 458. Lectotype ♀ design. by Bohart (in Bohart and French 1986: 341), Transcaspia (depository: HNHM)*.  
*Chrysis scutellaris* ssp. *consobrina*: Semenov-Tian-Shanskij and Nikolskaja 1954: 127 (China: Xinjiang, tax., descr.).  
*Chrysis* (*Chrysis*) *soror* ssp. *consobrina*: Linsenmaier 1959: 125 (tax., descr., distr., scutellaris group).  
*Chrysis soror*: Kimsey and Bohart 1991: 464 (cat., scutellaris group).

**Distribution.** China (Xinjiang).

**Remarks.** *C. consobrina* was considered a subspecies of *C. scutellaris* Fabricius by Semenov-Tian-Shanskij and Nikolskaja (1954), and later, a subspecieis of *C. soror* Dahlbom (Linsenmaier 1959), the eastern greenish form of *C. scutellaris*. For this reason Kimsey and Bohart (1991) placed it in synonym of *C. soror*. However the type examination of *C. consobrina* confirms that it is a valid species because it shares only a similar colour with *C. scutellaris* and *C. soror*.

103. **Chrysis dentipes** Radoszkowski, 1877  
[http://species-id.net/wiki/Chrysis_dentipes](http://species-id.net/wiki/Chrysis_dentipes)

*Chrysis dentipes* Radoszkowski, 1877: 15. Lectotype ♀ design. by Bohart (in Kimsey and Bohart 1991: 403, Uzbekistan: Sarafchan (depository: MMU)*.  
*Chrysis eversmanni* Mocsáry, 1912a: 407. Holotype ♂, Turkestan (407 (descr.), depository: HNHM) (synonymised by Kimsey and Bohart 1991: 403).  
*Chrysis* (*Cornuchrysis*) *eversmanni*: Linsenmaier 1968: 115 (China, tax., taczanovskii group).  
*Chrysis dentipes*: Kimsey and Bohart 1991: 403 (cat., taczanovskii group).

**Material examined.** 1♂, 2♀♀: Harare Ketmen, Tjube, Thian Chan Occid. Monts Sussamyr leg. Pic 1914, *Chrysis eversmanni* Mocs. det. Linsenmaier 1973 (NMLS).

**Distribution.** China (Xinjiang). Iran, Tadjikistan, Turkmenistan, Uzbekistan (du Buysson 1900; Mocsáry, 1912a; Semenov-Tian-Shanskij, 1954; Kimsey and Bohart 1991; Tarbinsky 2002a).
104. *Chrysis duplopilosa* Linsenmaier, 1968
http://species-id.net/wiki/Chrysis_duplopilosa

*Chrysis* (*Chrysis*) _duplopilosa_ Linsenmaier, 1968: 101. Holotype ♀, Tibet: Gyangtse (101 (descr.), _ignita_ group, depository: BMNH).
*Chrysis duplopilosa*: Kimsey and Bohart 1991: 406 (Tibet: Gyangtse, cat., _ignita_ group).

**Distribution.** China (Tibet).

105. *Chrysis durga* Bingham, 1903
http://species-id.net/wiki/Chrysis_durga
Plate 37

*Chrysis durga* Bingham, 1903: 487. Lectotype ♀ design. by Bohart (in Kimsey and Bohart 1991: 406), Burma: Mandalay (depository: BMNH)*.
*Chrysis durga*: Kimsey and Bohart 1991: 406 (China, lectotype design., cat., _smaragdula_ group).

**Distribution.** China. Burma, Laos, Malaysia (Kimsey and Bohart 1991).

106. *Chrysis extersa* du Buysson, 1898
http://species-id.net/wiki/Chrysis_extersa

*Chrysis extersa* du Buysson, 1898b: 137. Holotype ♀ China: Nyan-kin [= Nanjing] (137 (descr.), depository: MNHN).
*Chrysis extersa*: Kimsey and Bohart 1991: 410 (China: Nyan-kin [= Nanjing], cat., _ignita_ group); Kurzenko and Lelej 2007: 1005 (China, cat.).

**Distribution.** China (Jiangsu).

107. *Chrysis fasciata daphne* Smith, 1874
http://species-id.net/wiki/Chrysis_daphne

*Chrysis Daphne* Smith, 1874a: 399. Holotype ♀ Japan: Hiogo (399 (descr.), depository: BMNH).
*Chrysis* (*Hexachrysis*) _zetterstedti_ Dahlbom, 1845: Tsuneki 1947: 57 (China: Beijing, cat., distr.) [misid.].
*Chrysis* (*Tetrachrysis*) _daphne_: Tsuneki 1948b: 48 (tax.).
*Chrysis* (*Hexachrysis*) _fasciata zetterstedti_: Tsuneki 1953a: 60 (Manchuria: Tashonshan [= Guansu, Daxiangshan], tax., distr.) [misid.]; Tsuneki 1953b: 28 (North China, tax., distr.) [misid.].
Chrysis (Chrysis) fasciata var. daphne: Linsenmaier 1959: 163 (China (?), tax., descr., fasciata group).
Chrysis (Hexachrysis) fasciata daphne: Tsuneki 1963a: 1 (Manchuria, North China, key), 8 (Manchuria, North China, Beijing, tax., descr.), 9 (comp. notes, figs 16–23).
Chrysis (Pyria) fasciata daphne: Tsuneki 1970c: 49 (North China, key, tax.).

**Chrysis fasciata**: Kimsey and Bohart 1991: 410 (smaragdula group, cat.); Kurzenko and Lelej 2007: 1005 (Northeast China, cat.); Terayama et al. 2010: 4 (figs.), 8 (China, cat.), 12 (tab., biol.), 13 (fig. 2), 14 (fig. 7).

**Material examined.** Heilongjiang: 1 ♀, Harbin, 1.VIII.1943 leg. Alin, *Chrysis fasciata zetterstedti* Dhlb. det. Linsenmaier 1974 (NMLS).

**Distribution.** China (Heilongjiang, Gansu, Beijing). Japan (Smith 1874a; Linsenmaier 1959).

**Remarks.** At present, *Chrysis fasciata* var. zetterstedti Dahlbom, 1845 is known for certain only in Scandinavian countries and the Baltic countries. The Chinese and Japanese specimens should be considered as *Chrysis fasciata* ssp. daphne. Unpublished molecular data confirms that *zetterstedti* and *daphnis* belong to separate clades of the typical *Chrysis fasciata fasciata* (Paukkunen et al. 2014).

108. Chrysis foochowia Linsenmaier, 1968
http://species-id.net/wiki/Chrysis_foochowia

*Chrysis* (Chrysis) foochowia Linsenmaier, 1968: 102. Holotype ♀, China: Foochow [Fujian] (102 (descr., ignita group), depository: BMNH).

*Chrysis foochowia*: Kimsey and Bohart 1991: 411 (China, cat., ignita group); Kurzenko and Lelej 2007: 1005 (Southeast China, cat.).

**Material examined.** Fujian: 1 ♀, China Foochow C.R. Kellogg / Type ♀ *Chrysis* L. foochowia Lins. det. Linsenmaier 1966.

**Distribution.** China (Fujian).

109. Chrysis fossulata Smith, 1874
http://species-id.net/wiki/Chrysis_fossulata

*Chrysis fossulatus* (!) Smith, 1874b: 459. Holotype ♀, China: Shanghai (459 (descr.), depository: BMNH).

*Chrysis (Tetrachrysis) fossulata*: Mocsáry 1889: 375 (China septentrionalis, tax., descr.); Bischoff 1913: 51 (North China, cat.).

*Chrysis fossulata*: Dalla Torre 1892: 62 (China borealis, cat.); Kimsey and Bohart 1991: 412 (China, cat., intricans group).
Distribution. China (Shanghai). Neotropical species distributed from Brazil to Venezuela (Kimsey and Bohart 1991).

Remarks. According to Kimsey and Bohart (1991), *Chrysis fossulata* was introduced to China, South Africa and Australia via commerce.

110. *Chrysis fouqueti* du Buysson, 1908
http://species-id.net/wiki/Chrysis_fouqueti

*Chrysis Fouqueti* du Buysson, 1908: 210. Holotype ♀, Viet Nam: “Tonkin” (210 (descr.), depository: MNHN)*.

*Chrysis* (*Tetrachrysis*) *faceta* Mocsáry, 1912b: 561. Holotype ♂, Taiwan: Takao [= Kaohsiung], (561 (descr.), depository: HNHM) nec Aaron, 1885.

*Chrysis* (*Tetrachrysis*) *faceta*: Mocsáry 1913b: 151 (Taiwan: Takao [= Kaohsiung], Taihorin, Taihorinsho, cat.), 152 (Taiwan, cat.); Bischoff 1913: 51 (Taiwan, cat.); Uchida 1927: 151 (Taiwan, cat.); Uchida 1933: 5 (Taiwan: Tainan, Shinka, cat.).

*Chrysis* (*Chrysis*) *facetana* Linsenmaier, 1968: 101. Replacement name for *Chrysis faceta* Mocsáry, 1912.

*Chrysis* (*Chrysis*) *faceta*: Tsuneki 1970b: 13 (Taiwan: Tsukeng, Chuantou, Fangliao, Fangshnlu, Paoli, tax., descr.), 14 (figs 35–37).

*Chrysis fouqueti*: Kimsey and Bohart 1991: 412 (Taiwan, cat., *ignita* group); Kurzenko and Lelej 2007: 1005 (Taiwan, cat.).

Material examined. 1♀, China Tinghai [= Qinghai], Chusom Coll. Linsenmaier / ♀ *Chrysis L. fouqueti* Buyss. det. Linsenmaier 1973.

Distribution. China (Qinghai, Shandong, Taiwan). Mongolia, Viet Nam (du Buysson 1908; Mocsáry, 1912).

Remarks. Linsenmaier (1959, 1968) considered *C. csikiana* as a subspecies of *C. fouqueti* from the Chinese mainland and *C. facetana* to be a subspecies from Taiwan.

111. *Chrysis fulgida* Linnaeus, 1761
http://species-id.net/wiki/Chrysis_fulgida

*Chrysis fulgida* Linnaeus, 1761: 415. Lectotype ♀ design. by Morgan (1984: 9), Sweden: Uppsala (depository: LSL).

*Chrysis* (*Tetrachrysis*) *fulgida*: Trautmann 1927: 175 (E China, tax., descr.); Tsuneki 1950: 79 (comp. notes).

*Chrysis* (*Chrysis*) *fulgida*: Linsenmaier 1997b: 37 (key), 121 (colour table), 122 (Manchuria, tax., descr., *ignita* group, fig. 104).

*Chrysis fulgida*: Kimsey and Bohart 1991: 412 (cat).
Material examined. Heilongjiang: 1♀, Harbin, 9.VII.1944 leg. Alin, identified by Linsenmaier in 1973 as fulgida ssp. aequicolor (NMLS).

Distribution. China (Heilongjiang). Widely distributed from Europe to Asia (Dalla Torre 1892; Tsuneki 1953b; Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

112. Chrysis galloisi (du Buysson, 1908)
http://species-id.net/wiki/Tetrachrysis_galloisi

_Tetrachrysis Galloisi_ du Buysson, 1908: 210. Lectotype ♂ design. by Bohart (in Kimsey and Bohart 1991: 413), Japan (depository: MNHN)*.

_Chrysis_ (Tetrachrysis) _galloisi_: Tsuneki 1948b: 52 (tax.).

_Chrysis_ (Chrysis) _galloisi_: Linsenmaier 1959: 150 (key), 161 (tax., descr., _ignita_ group).

_Chrysis galloisi_: Kimsey and Bohart 1991: 413 (lectotype design., cat., _ignita_ group); Kurzenko and Lelej 2007: 1005 (China, cat.); Terayama et al. 2010: 4 (figs.), 8 (China, cat.), 12 (tab., biol.).

Distribution. China. Southeastern Russia and Russian Far East, Japan (Tsuneki 1950; Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

113. Chrysis gracilenta Mocsáry, 1889
http://species-id.net/wiki/Chrysis_gracilenta

Plate 38

_Chrysis_ (Tetrachrysis) _gracilenta_ Mocsáry, 1889: 375. Holotype ♀, China: Hong Kong (375 (descr.), depository: NHMW)*.

_Chrysis_ (Tetrachrysis) _gracilenta_: Bingham 1903: 437 (key), 464 (China, tax., descr.); Bischoff 1913: 52 (China, cat.).

_Chrysis gracilenta_: Dalla Torre 1892: 64 (China, cat.); Kimsey and Bohart 1991: 415 (Hong Kong, cat. _ignita_ group).

Distribution. China (Hong Kong). Burma, India (Bingham 1903, Bischoff 1913).

114. Chrysis graelsii Guérin-Méneville, 1842
http://species-id.net/wiki/Chrysis_graelsii

_Chrysis graelsii_ Guérin-Méneville, 1842: 148. Holotype ♀, Spain: Barcelona (148 (descr.), depository: MSNG)*.

_Chrysis sybarita_ f. _pekinensis_ Tsuneki, 1947: 57. Syntypes, China: Beijing (56 (tax., distr.), 57 (descr.), depository: NMLS)*.
Chrysis sybarita Förster, 1853: 309. Holotype ♂, Hungary ((309 (descr.), Type lost ?). Chrysis (Chrysis) sybarita: Linsenmaier 1959: 135 (sybarita group).
Chrysis graeelsii: Kimsey and Bohart 1991: 341 (fig. 111d), 347 (tax.), 415 (cat., graelsii group).

Material examined. 2♂♂, Peking N. China 20.V.38 K. Tsuneki / Types are much larger <handwritten by Tsuneki> / Paratype Chrysis sybarita var. pekinensis K. Tsuneki (NMLS).

Distribution. China (Beijing). Europe, Iran, Kyrgyzstan, Siberia, Turkey (Linsenmaier 1959, 1968, 1997a; Semenov-Tian-Shanskij 1967; Tarbinsky 2002c).
Remarks. Chrysis sybarita var. pekinensis Tsuneki is not mentioned in Kimsey and Bohart (1991).

115. Chrysis grumorum Semenow, 1892
http://species-id.net/wiki/Chrysis_grumorum
Plate 39

Chrysis grumorum Semenow, 1892: 92. Holotype ♂ (not ♀), Tibet: Amdo (92 (descr.), depository: ZIN)*.
Chrysis (Tetrachrysis) grumorum: Bischoff 1913: 52 (Amdo, cat.).
Chrysis grumorum: Kimsey and Bohart 1991: 416 (Tibet: Amdo, cat., ignita group).

Distribution. China (Tibet).

116. Chrysis hoozana Mocsáry, 1913
http://species-id.net/wiki/Chrysis_hoozana
Plate 40

Chrysis hoozana Mocsáry, 1913b: 615. Holotype ♀ (not ♂), Taiwan: Hoozan [= Fengshan] (615 (descr.), 619 (Taiwan, cat.). depository: HNHM)*.
Chrysis (Chrysis) hoozana: Uchida 1927: 151 (Taiwan, cat.); Uchida 1933: 5 (Taiwan, cat.).
Chrysis (Chrysis) hoozana: Tsuneki 1970b: 15 (Taiwan, tax., descr.).
Chrysis hoozana: Kimsey and Bohart 1991: 418 (Taiwan: Hoozan [= Fengshan], cat., ignita group).

Distribution. China (Taiwan).

117. Chrysis hyacinthus Semenov-Tian-Shanskij, 1967
http://species-id.net/wiki/Chrysis_hyacinthus
Plate 41

Chrysis (Tetrachrysis) hyacinthus Semenov-Tian-Shanskij, 1967: 168. Holotype ♂, China [Xinjiang]: Gashun, Bugas near Hami [Kumul] (168 (descr.), depository: ZIN)*.
Chrysis hyacinthus: Kimsey and Bohart 1991: 419 (North China, cat., splendidula-senegalensis group); Tarbinsky 2002c: 36 (sub hiacithus (!) key), 37 (China, cat.); Kurzenko and Lelej 2007: 1005 (China, cat.).

Distribution. China (Xinjiang).

118. Chrysis ignifascia Mocsáry, 1893
http://species-id.net/wiki/Chrysis_ignifascia

Chrysis (Holochrysis) birmanica Mocsáry, 1893: 214. Holotype ♂, Burma (214 (descr.), depository: MSNG)*.

Chrysis (Holochrysis) ignifascia Mocsáry, 1893: 215. Holotype ♀, Burma (215 (descr.), depository: MSNG)*.

Chrysis birmanica: Kimsey and Bohart 1991: 420 (synonym of ignifascia); Rosa 2009: 221 (tax., type, cat.).

Chrysis ignifascia: Kimsey and Bohart 1991: 420 (China, cat., capitalis group).

Chrysis (Holochrysis) ignifascia: Rosa 2009: 233 (tax., type, cat.).

Material examined. 1 ♀, Taiwan, Koshun, Apr. 1937, coll. K. Iwata (NMLS).

Distribution. China (Taiwan). Burma (Mocsáry, 1893).

119. Chrysis ignita (Linnaeus, 1758)
http://species-id.net/wiki/Sphex_ignita

Sphex ignita Linnaeus, 1758: 571. Lectotype ♀ design. by Richards (1935: 159), Europe (depository: LSL).

Chrysis (Tetrachrysis) ignita: Mocsáry 1889: 487 (tax.), 488 (China boreali, tax., descr.); Uchida 1927: 151 (North China, cat.); Tsuneki 1947: 55 (China: Beijing, cat.); Tsuneki 1948a: 126 (China: Hengshuichen-Henglingkuan, Henglingshan-Pei-hungkaokao, cat.), 128 (Beijing distr., Manchuria, Shanxi, cat.); Tsuneki 1953a: 58 (Manchuria: Wenchüansze; Heilongjiang: Harbin, tax.).

Chrysis ignita: Dalla Torre 1892: 69 (China boreali, cat.); du Buysson 1898a: 535 ("Montagnes au nord de Peking", cat.); du Buysson 1899: 167 (China, cat.); du Buysson 1900: 148 (China: Beijing, cat.); Kimsey and Bohart 1991: 317 (fig. 103), 336 (fig. 110a), 348 (tax., ignita group), 420 (cat.); Kurzenko and Lelej 2007: 1005 (China, cat.).

Chrysis ignita var.: Hammer 1936: 3 (China: Inner Mongolia: Hurtjertu Gol, cat.).

Chrysis (Chrysis) ignita: Linsenmaier 1959: 151 (key), 152 (key), 155 (tax., ignita group), 205 (fig. 388), 217 (fig. 696).
**Distribution.** China (Heilongjiang, Inner Mongolia, Hebei, Beijing, Shanxi). Widely distributed in the Palaearctic Region (Trautmann 1927; Linsenmaier 1959; Kimsey and Bohart 1991).

**Remarks.** Some identification may be related to other species belonging to the *ignita* group. The species is traditionally subdivided in two forms, *C. ignita* A and B after Linsenmaier (1959), now recognized as two different species: *C. terminata* Dahlbom and *C. ignita* (Linnaeus).

120. *Chrysis illecebrosa* Semenov-Tian-Shanskij, 1967

http://species-id.net/wiki/Chrysis_illecebrosa

Plate 42

*Chrysis* (*Tetrachrysis*) *illecebrosa* Semenov-Tian-Shanskij, 1967: 166. Holotype ♂, North China [= Xinjiang]: Bugas near Hami [Kumul] (166 descr.), depository: ZIN)*.

*Chrysis illecebrosa*: Kimsey and Bohart 1991: 421 (North China, cat., *comparata* group).

**Distribution.** China (Xinjiang).

121. *Chrysis inaequalis* Dahlbom, 1845

http://species-id.net/wiki/Chrysis_inaequalis

*Chrysis inaequalis* Dahlbom, 1845: 8. Holotype ♀, Turkey: Bosfor (8 descr.), type lost).

*Chrysis* (*Tetrachrysis*) *inaequalis*: Tsuneki 1947: 56 (China: Beijing, cat.); Tsuneki 1948a: 126 (China: Shanxi: Kiuatauyuan, Hengshuihen, Hengliikuan, cat.), 128 (Beijing distr., Shanxi, cat.); Tsuneki 1953a: 59 (Manchuria: Kaiyuan, Lushan, cat., distr.).

*Chrysis inaequalis*: Linsenmaier 1959: 165 (North China, Manchuria, tax., descr., *inaequalis* group), 205 (fig. 405), 213 (fig. 610); Linsenmaier 1997b: 38 (key), 126 (China, Manchuria, tax., descr., *inaequalis* group, fig. 110).

*Chrysis inaequalis*: Banaszak 1980: 28 (China, Manchuria, tax.); Kimsey and Bohart 1991: 329 (fig. 107q), 331 (108b), 335 (fig. 109k), 336 (fig 110g), 351 (tax.), 422 (cat.).

**Material examined.** ♀, Beijing, Russian mission, 5.IX.1906, leg. Y. Vasiliev (ZIN); ♀, Alashan, Din-yuan-in, 5.–6.VI.1908, leg. Kozlov (ZIN).

**Distribution.** China (Liaoning, Inner Mongolia, Beijing, Shanxi). Widely distributed in central and southern Europe, Kyrgyzstan, Turkey (Linsenmaier 1959; Kimsey and Bohart 1991), Iran (Rosa et al. 2013), Kazakhstan, Tadjikistan, Transcaucasia, Uzbekistan (Tarbinsky 2002b), Siberia (Dalla Torre 1892), Russian Far East (Kurzenko and Lelej 2007).
122. *Chrysis ionophris* Mocsáry, 1893
http://species-id.net/wiki/Chrysis_ionophris
Plate 43

*Chrysis* (*Tetrachrysis*) *ionophris* Mocsáry, 1893: 226. Holotype ♀, Burma (226 (descr.), depository: MSNG)*.

*Chrysis ionophris*: du Buysson 1899: 165 (China, cat.); Kimsey and Bohart 1991: 425 (Hong Kong, Taiwan, tax., *splendidula-senegalensis* group); Rosa 2009: 239 (tax., type, cat.).

*Chrysis* (*Tetrachrysis*) *schenklingi* Mocsáry, 1913b: 618. Lectotype ♀, design. by Bohart (in Kimsey and Bohart 1991: 425), Taiwan, depository: HNHM)* (synonymised by Kimsey and Bohart 1991: 425).

*Chrysis* (*Chrysis*) *schenklingi*: Uchida 1927: 151 (Taiwan, cat.).

*Chrysis* (*Chrysis*) *schenklingi*: Tsuneki 1961: 375 (Taiwan, tax., descr., figs 22–24); Tsuneki 1970b: 14 (Taiwan: Manchou, Ssuchungchi, Hengchun, tax., descr.), 15 (figs 38–39).

**Distribution.** China (Taiwan, Hong Kong). Burma, Laos, Sumatra, Thailand (Kimsey and Bohart 1991).

**Remarks.** Tsuneki (1970b) added some morphological characteristics under the name *C. schenklingi*.

123. *Chrysis jelisyni* Radoszkowski, 1891
http://species-id.net/wiki/Chrysis_jelisyni

*Chrysis Jelisyni* Radoszkowski, 1891: 186. Holotype ♀, Mongolia [= China]: Kansu [= Gansu], Jelissyn-Kuce (186 (descr.), depository: ISEA-PAS)*.

*Chrysis* (*Tetrachrysis*) *jelisyni*: Bischoff 1913: 54 (Mongolia [= China], cat.).

*Chrysis jelisyni*: Kimsey and Bohart 1991: 426 (Mongolia [= China]: Kansu, cat., *comparata-scutellaris* group); Kurzenko and Lelej 2007: 1005 (China, cat.).

**Distribution.** China (Gansu).

124. *Chrysis kashgarica* Mocsáry, 1912
http://species-id.net/wiki/Chrysis_kashgarica

*Chrysis kashgarica* Mocsáry, 1912b: 550. Holotype ♂, China [Xinjiang]: Kashgar (550 (descr.), depository: HNHM)*.

*Chrysis kashgarica*: Kimsey and Bohart 1991: 427 (China: Sinkiang [= Xinjiang], cat., *ignita* group); Tarbinsky 2000: 194 (key), 198 (China, cat.).

**Distribution.** China (Xinjiang).
125. *Chrysis keriensis* Radoszkowski, 1887

http://species-id.net/wiki/Chrysis_keriensis

*Chrysis keriensis* Radoszkowski, 1887: 47. Holotype ♀, China [Xinjiang]: Keria-Daria (47 (descr.), depository: ISEA-PAS)*.

*Chrysis (Tetrachrysis) keriensis*: Mocsáry 1889: 516 (Mongolia [= China], tax., descr.);
Bischoff 1913: 54 (Mongolia [= China], cat.).

*Chrysis keriensis*: Dalla Torre 1892: 73 (Mongolia [= China], cat.); Kimsey and Bohart 1991: 427 (Mongolia [= China], cat.); Kurzenko and Lelej 2007: 1005 (China: Xinjiang, cat.).

**Distribution.** China (Xinjiang).

126. *Chrysis kokuevi* Semenov-Tian-Shanskij, 1967

http://species-id.net/wiki/Chrysis_kokuevi

Plate 44

*Chrysis (Tetrachrysis) kokuevi* Semenov-Tian-Shanskij, 1967: 178. Holotype ♂, China: Alashan: Dyn-yuan-in oasis (178 (descr.), depository: ZIN)*.

*Chrysis kokuevi*: Kimsey and Bohart 1991: 428 (N China: Dyn-yuan-in oasis, cat.).

**Distribution.** China (Inner Mongolia).

**Remarks.** It belongs to the *succincta* group. The metasoma of the holotype was glued on a card beneath the specimen.

127. *Chrysis kozlovi* Semenov-Tian-Shanskij, 1967

http://species-id.net/wiki/Chrysis_kozlovi

Plate 45

*Chrysis (Gonodontochrysis) kozlovi* Semenov-Tian-Shanskij, 1967: 160. Holotype ♂, North China: Alashan, Tzosto Canyon (160 (descr.), depository: ZIN)*.

*Chrysis kozlovi*: Kimsey and Bohart 1991: 429 (Mongolia [= Inner Mongolia], Tzosto Canyon, cat., *rufitarsis* group).

**Distribution.** China (Inner Mongolia).
128. *Chrysis kukunorensis* Semenov-Tian-Shansky, 1967

http://species-id.net/wiki/Chrysis_kukunorensis

Plate 46

*Chrysis* (*Tetrachrysis*) *kukunorensis* Semenov-Tian-Shansky, 1967: 178. Holotype ♀, China [Qinghai]: SE lake Kukunor [= Qinghai lake] (178 (descr.), depository: ZIN)*.

*Chrysis kukunorensis*: Kimsey and Bohart 1991: 429 (North China: SE Lake Kukunor, cat.).

**Material examined.** 1♀, China: Gansu Xiahe (Labhran) 3000–3500 m, 13–23.7.91, leg. P. Salk, Linsenmaier det. 1995 (NMLS).

**Distribution.** China (Qinghai, Gansu).

**Remarks.** It belongs to the *ignita* group.

129. *Chrysis lama* Mocsáry, 1914

http://species-id.net/wiki/Chrysis_lama

Plate 47

*Chrysis lama* Mocsáry, 1914: 45. Lectotype ♂ design. by Bohart (in Kimsey and Bohart 1991: 431), Tibet: Gyantse (depository: BMNH)*.

*Chrysis lama*: Kimsey and Bohart 1991: 431 (Tibet: Gyantse, lectotype design., cat., *ignita* group).

**Distribution.** China (Tibet).

130. *Chrysis lincea* Fabricius, 1775

http://species-id.net/wiki/Chrysis_lincea

*Chrysis lincea* Fabricius, 1775: 367. Holotype, Sierra Leone (367 (descr.), depository: Drury coll.).

*Chrysis lyncea* (!): du Buysson 1898b: 560 (China, cat.).

*Chrysis* (*Pyria*) *lyncea* (!): Linsenmaier 1959: 178 (*lyncea* group).

*Chrysis lincea*: Kimsey and Bohart 1991: 326 (fig. 106u), 331 (figs 108o, 108p), 352 (cat.), 357 (fig. 113f), 433 (*lincea* group, cat.).

**Distribution.** China. Widely distributed in Asia, Australia and the Afrotropical Region (Linsenmaier 1959; Kimsey and Bohart 1991; Madl and Rosa 2012).
131. **Chrysis longissima** du Buysson, 1898

http://species-id.net/wiki/Chrysis_longissima

*Chrysis longissima* du Buysson, 1898b: 529. Lectotype ♀ design. by Bohart (in Kimsey and Bohart 1991: 433), China: Kiang-si [= Jiangxi] (depository: MNHN).

*Chrysis longissima*: du Buysson 1899: 165 (China, cat.); Kimsey and Bohart 1991: 433 (China: Kiang-si [= Jiangxi], cat.); Kurzenko and Lelej 2007: 1005 (China, cat.).

*Chrysis* (*Tetrachrysis*) *longissima*: Bischoff 1913: 55 (China: Kiang-si [= Jiangxi], cat.).

**Distribution.** China (Jiangxi).

132. **Chrysis longula aeneopaca** Linsenmaier, 1959

http://species-id.net/wiki/Chrysis_longula_aeneopaca

*Chrysis* (*Chrysis*) *longula* ssp. *aeneopaca* Linsenmaier, 1959: 160. Holotype ♀, Transcaspia (160 (type series: China, Fennoscandia, Japan, Siberia, Transcaspia, descr.), *ignita* group, depository: NMLS)*.

*Chrysis longula*: Kimsey and Bohart 1991: 433 (cat.).

**Distribution.** China. Fennoscandia, Japan, Siberia, Transcaspia (Linsenmaier 1959).

133. **Chrysis mane** Semenov-Tian-Shanski, 1912

http://species-id.net/wiki/Chrysis_mane

Plate 48

*Chrysis mane* Semenov-Tian-Shanski, 1912: 192. Lectotype ♂, China: Alashan (192 (descr.), depository: ZIN)*.

*Chrysis mane*: Kimsey and Bohart 1991: 436 (China [not Mongolia]: Gansu, Quingai, *ignita* group).

**Material examined.** 33♂♂, Din-yuan-in, IV.-VI.1908–1909, leg. Kozlov (ZIN); 1♂, env. Lang Zhou, 24.IV.1909, leg. Kozlov (ZIN); 4♀♀, env. Sinin, 1.–6.IX.1908, leg. Kozlov (ZIN); 19♀♀, Din-yuan-in, Alashan, IX.1908, leg. Kozlov (ZIN); 1♀, Ning-sia-fu, Yellow river Valley, 1.–4.VI.1908, leg. Kozlov (ZIN); 1♀, between Tsing-yung-siang and Pilung-gu-ang, 1908, leg. Kozlov (ZIN); 3♀♀, Alashan, Tzosto Canyon, 20.–26.V.1908, leg. Kozlov (ZIN).

**Distribution.** China (Gansu, Qinghai, Inner Mongolia).

**Remarks.** The lectotype bears the locality label: Alashan, oasis Din-yuan-in, 23.–26.IV.1909, expedition Kozlov.
134. *Chrysis maracandensis* Radoszkowski, 1877  
http://species-id.net/wiki/Chrysis_maracandensis

*Chrysis maracandensis* Radoszkowski, 1877: 14. Lectotype ♂ [not ♀] design. by Bohart (in Kimsey and Bohart 1991: 436), Uzbekistan: Sarafshan (depository: MMU)*.  
*Chrysis* (*Tetrachrysis*) *maracandensis*: Bischoff 1910: 473 (Chinese Turkestan [= Xinjiang]: Pjalma-Chotan, cat.).  
*Chrysis maracandensis*: Kimsey and Bohart 1991: 436 (cat., *comparata-scutellaris* group).

**Distribution.** China (Xinjiang). Turkmenistan, Uzbekistan (Kimsey and Bohart 1991; Tarbinsky 2002c).

135. *Chrysis marginata* Mocsáry, 1889  
http://species-id.net/wiki/Chrysis_marginata

*Chrysis marginata* Mocsáry 1889: 451. Holotype ♀; Turkestan (451 (descr.), depository: ISEA-PAS)*.  
*Chrysis* (*Tetrachrysis*) *marginata*: Bischoff 1910: 479 (Chinese Turkestan [= Xinjiang]: Pjalma-Chotan, cat.); Semenov-Tian-Shanskij and Nikol’skaja 1954: 127 (China: Xinjiang, tax.).  
*Chrysis* (*Chrysis*) *marginata*: Linsenmaier 1959: 146 (key, tax., descr., *comparata* group), 204 (fig. 373).  
*Chrysis marginata*: Kimsey and Bohart 1991: 436 (cat., *comparata* group); Tarbinsky 2002c: 34 (China: Xinjiang, key, cat., distr.), 42 (figs 18–19).

**Distribution.** China (Xinjiang). Southeastern Europe, Cyprus, Greece, Iran, Kazakhstan, Palestine, Tadjikistan, Turkey, Turkmenistan, Uzbekistan (Linsenmaier 1959; Tarbinsky 2002c; Rosa et al. 2013).

136. *Chrysis matutina* Semenov-Tian-Shanskij, 1967  
http://species-id.net/wiki/Chrysis_matutina

Plate 49

*Chrysis* (*Tetrachrysis*) *matutina* Semenov-Tian-Shanskij, 1967: 179. Holotype ♀, China: Gansu (179 (descr.), depository: ZIN)*.  
*Chrysis matutina*: Kimsey and Bohart 1991: 437 (China: Hansiu, cat., *ignita* group); Kurzenko and Lelej 2007: 1005 (China: Hubei, cat., *ignita* group).

**Distribution.** China (Gansu, Hubei).
137. *Chrysis mongoliana* Bohart, 1991
http://species-id.net/wiki/Chrysis_mongoliana
Plate 50

*Chrysis* (*Tetrachrysis*) *mongolica* Semenov-Tian-Shanskij, 1967: 179. Holotype ♀, Mongolia: Transbaikal, Ingoda river (type series: N China: Alashan; 179 (descr.), depository: ZIN)* nec Mocsáry, 1914.

*Chrysis mongoliana* Bohart (in Kimsey and Bohart), 1991: 440. Replacement name for *Chrysis* (*Tetrachrysis*) *mongolica* Semenov-Tian-Shanskij, 1967 *nec* Mocsáry, 1914.

*Chrysis mongoliana*: Kurzenko and Lelej 2007: 1005 (China: Gansu, cat.).

**Material examined.** 1 ♀, Alashan, Din-yuan-in, 20.V.1908, leg. Kozlov (ZIN); 1 ♀, Alashan, Tzosto Canyon, 25.V.1908, leg. Kozlov (ZIN):

**Distribution.** China (Inner Mongolia, Gansu).

138. *Chrysis nigricincta* Bischoff, 1910
http://species-id.net/wiki/Chrysis_nigricincta

*Chrysis* (*Tetrachrysis*) *nigricincta* Bischoff, 1910: 475. Holotype ♂, Chinese Turkestan [= Xinjiang]: Pjalma-Chotan (475 (descr.), depository: MNHU)*.

*Chrysis* (*Tetrachrysis*) *nigricincta*: Bischoff 1913: 56 (Chinese Turkestan [= Xinjiang], cat.).

*Chrysis nigricincta*: Kimsey and Bohart 1991: 443 (China: Sinkiang [= Xinjiang], cat.).

**Distribution.** China (Xinjiang).

139. *Chrysis nigropilosa* Tsuneki, 1970
http://species-id.net/wiki/Chrysis_nigropilosa

*Chrysis* (*Tetrachrysis*) *nigropilosa* Tsuneki, 1970b: 16. Holotype ♀, Taiwan: Chiai Province, Fenchifu, 1400 m (16 (descr.), 17 (type series: Taiwan: Fenchifu, Chienching, descr., figs 42–48), depository: OMNH, not NIAS).

*Chrysis nigropilosa*: Kimsey and Bohart 1991: 443 (Taiwan: Chiai, Fenchifu, cat.).

**Distribution.** China (Taiwan).

140. *Chrysis parallela* Brullé, 1846
http://species-id.net/wiki/Chrysis_parallela
Plate 51

*Chrysis parallela* Brullé, 1846: 29. Holotype ♀ [not ♂], Indonesia: Timor Is. (29 (descr.), depository: MNHN).
An annotated checklist of the chrysidid wasps (Hymenoptera, Chrysididae) from China

141. *Chrysis pleskei* Semenow, 1892
http://species-id.net/wiki/Chrysis_pleskei
Plate 52

*Chrysis Pleskei* Semenow, 1892a: 257. Lectotype ♀ design. by Bohart (in Kimsey and Bohart 1991: 449), China [Xinjiang]: Sandzhu (depository: ZIN)*.

*Chrysis (Tetrachrysis) pleskei*: Bischoff 1910: 483 (Chinese Turkestan [= Xinjiang]: Pjalma-Chotan, cat.); Bischoff 1913: 57 (Chinese Turkestan [= Xinjiang]: Pjalma-Chotan, cat.).

*Chrysis pleskei*: Kimsey and Bohart 1991: 449 (China: Sinkiang [= Xinjiang], cat., *comparata-scutellaris* group); Kurzenko and Lelej 2007: 1005 (China: Xinjiang: Sandzhu, cat.).

**Distribution.** China (Xinjiang).

**Remarks.** It belongs to the *comparata* group.

142. *Chrysis potanini* Radoszkowski, 1891
http://species-id.net/wiki/Chrysis_potanini

*Chrysis potanini* Radoszkowski, 1891: 186. Holotype ♂, Mongolia [= China]: Tufyn (ISEA-PAS)*.

*Chrysis (Tetrachrysis) potanini*: Bischoff 1911: 57 (Mongolia [= China], cat.).

*Chrysis potanini*: Kimsey and Bohart 1991: 450 (Mongolia [= China], cat.).

**Distribution.** China.

**Remarks.** It belongs to the *comparata* group.
143. *Chrysis principalis* Smith, 1874
http://species-id.net/wiki/Chrysis_principalis

*Chrysis* *principalis* Smith, 1874b: 461. Holotype ♀, China: Shanghai (46 (descr.), depository: HEC).

*Chrysis* (*Hexachrysis*) *principalis*: Mocsáry 1889: 559 (China, descr., distr.); Bischoff 1910: 490 (Taiwan, cat.); Mocsáry 1913b: 619 (Taiwan: Takao [= Kaohsiung], Taihorinsho, Anping, Kosempo, cat.); Uchida 1927: 152 (Taiwan, North China, cat.); Uchida 1933: 4 (Taiwan, North China, cat.); Tsuneki 1948a: 127 (China: Shanxi: Yangchêng, cat., distr.), 128 (Shanxi, cat.); Tsuneki 1953b: 28 (East coast of China, Taiwan, tax.); Tsuneki 1961: 377 (North China, Taiwan, tax.); Tsuneki 1963a: 2 (East China, Taiwan, key, tax., descr., distr.), 3 (figs 1–8), 4 (China as far north as Manchuria (Dairen), Taiwan: Taihoku, Heito, Kuraru, distr., comp. notes), 9 (comp. notes, fig. 9).

*Chrysis* *principalis*: Dalla Torre 1892: 85 (China, cat.); du Buysson 1898a: 537 (China: Kiang-si [= Jiangxi], cat.), 558 (North China: Pena, cat.); du Buysson 1899: 168 (China, cat.); du Buysson 1900: 153 (China: Beijing, cat.); Bingham 1903: 440 (key), 490 (tax., descr.), 491 (China, distr.); Kimsey and Bohart 1991: 450 (China: Shanghai, cat., *smaragdula* group); Kurzenko and Lelej 2007: 1005 (China, cat.); Terayama et al. 2010: 8 (China, Taiwan, cat.).

*Hexachrysis* *principalis*: Hammer 1950: 2 (China: Kiangsu [= Jiangsu], cat.).

*Chrysis* (*Pyria*) *principalis*: Tsuneki 1970b: 18 (Taiwan, cat.).

**Material examined.** 1 ♀, Taiwan, Chipon, VIII.1935, leg. K. Iwata, det. Linsenmaier 1974 (NMLS).

**Distribution.** China (Liaoning, Beijing, Shanxi, Jiangsu, Shanghai, Jiangxi, Taiwan). India, Sri Lanka, Sumatra, Java, Celebes, Siam, Aru Is., Korea (Tsuneki 1953b).

**Remarks.** Tsuneki (1970b) considered *C. buddhae* Mocsáry, 1913 and *C. fukai* Rowhwer, 1911 junior synonyms of *C. principalis* Smith, 1874. Kimsey and Bohart (1991) considered *C. buddhae* Mocsáry, 1913 as a valid species and *C. fukai* as a synonym of *C. parallela* Brullé, 1846.

144. *Chrysis przewalskii* Radoszkovski, 1887
http://species-id.net/wiki/Chrysis_przewalskii

*Chrysis* *Przewalskii* Radoszkovski, 1887: 46. Holotype ♂, Mongolia [= China]: Zaïdam (46 (descr.), depository: ISEA-PAS)*.

*Chrysis* (*Tétrachrysis*) *przewalskii*: Mocsáry 1889: 504 (Mongolia [= China], tax., descr.); Bischoff 1913: 57 (Mongolia [= China], cat.).

*Chrysis przewalskii*: Dalla Torre 1892: 86 (Mongolia [= China], cat.); Kimsey and Bohart 1991: 452 (Mongolia [= China], Keria Mts., cat., *pulchella* group).

**Distribution.** China (Xinjiang, Qinghai).
145. *Chrysis rutilans extranea* Linsenmaier, 1959
http://species-id.net/wiki/Chrysis_rutilans_extranea

*Chrysis (Chrysis) rutilans* ssp. *extranea*: Linsenmaier 1959: 128. Holotype ♂, Japan (128 (key, tax., descr., *splendidula* group), 203 (fig. 302), 211 (figs 566, 569); depository: NMLS)*.

*Chrysis rutilans*: Radoszkovsky 1866: 12 (China, tax.); Kimsey and Bohart 1991: 458 (cat., *splendidula* group).

*Chrysis (Chrysis) rutilans* ssp. *extranea*: Linsenmaier 1997b: 101 (China [Heilongjiang], tax.).

**Material examined.** Heilongjiang: 1 ♂, Harbin, 18.VI.1944 [Paratype]; 1 ♂ labeled: [Szechuen, China, Kintung, Chauchiatu 24.IV.49 Y.W. Djon] [Paratype] (NMLS)*.

**Distribution.** China (Heilongjiang, Sichuan). Europe and Eurasia (Linsenmaier 1959, Kimsey and Bohart 1991).

**Remarks.** The specimens identified as *C. rutilans* Olivier by Radoszkovsky (1866) is very likely referrable to other species, based on wrong identifications found in his collection.

146. *Chrysis rutiliventris nankingensis* Linsenmaier, 1959
http://species-id.net/wiki/Chrysis_rutiliventris_nankingensis

*Chrysis (Chrysis) rutiliventris* ssp. *nankingensis* Linsenmaier, 1959: 153. Holotype ♀, China [Jiangsu]: Nanking [=Nanjing] (153 (descr.), *ignita* group, depository: NMLS)*.

*Chrysis rutiliventris*: Kimsey and Bohart 1991: 458 (China: Nan King [= Nanjing], cat., *ignita* group); Kurzenko and Lelej 2007: 1005 (China, cat.).

**Material examined.** Jiangsu: 1 ♀, Nanking China 30.IV.23 / Presented by Van Dyke collector / Type ♀ *Chrysis L. rutiliventris* ssp. *nankingensis* det. Linsenmaier 1959 (NMLS). **Distribution.** China (Jiangsu). Europe, Eurasia and North Africa (Kimsey and Bohart 1991).

147. *Chrysis schalfeewi* Semenow, 1892
http://species-id.net/wiki/Chrysis_schalfeewi
Plate 53

*Chrysis Schalfeewi* Semenow, 1892: 80. Holotype ♂, China [Xinjiang]: Sandzhu (80 (descr.), depository: ZIN)*.

*Chrysis (Tetrachrysis) schalfewi* (!): Bischoff 1913: 58 (China, cat.). Incorrect emendation.

*Chrysis schalfeewi*: Kimsey and Bohart 1991: 459 (China: Sinkiang [= Xinjiang]; cat., *comparata-scutellaris* group); Kurzenko and Lelej 2007: 1005 (China: Xinjiang, cat.).

**Distribution.** China (Xinjiang).
148. *Chrysis serena* Radoszkowski, 1891
http://species-id.net/wiki/Chrysis_serena

*Chrysis serena* Radoszkowski, 1891: 194. Holotype ♂, Iran: Sarakhs (194 (descr.), depository: ISEA-PAS)*.

*Chrysis (Chrysis) pyrrhina* ssp. *serena*: Linsenmaier 1968: 82 (Manchuria [= Heilongjiang], tax., descr., distr., *viridula* group).

*Chrysis pyrrhina* Dahlbom, 1854: Kimsey and Bohart 1991: 454 (cat.).

**Material examined.** Heilongjiang: 1 ♀, Harbin, 19.VII.1953 (NMLS).

**Distribution.** China (Heilongjiang).

149. *Chrysis sinensis* du Buysson, 1898
http://species-id.net/wiki/Chrysis_ignita_sinensis

*Chrysis ignita* var. *sinensis* du Buysson, 1898b: 139. Holotype ♀, China: Shanghai (139 (descr.), depository: MNHN).

*Chrysis (Tetrachrysis) ignita* var. *sinensis*: Bischoff 1913: 53 (China, cat.); Trautmann 1927: 145 (cat.), 147 (Shanghai, tax.).

*Chrysis (Chrysis) sinensis*: Linsenmaier 1959: 152 (key), 155 (China, tax., descr., *ignita* group).

*Chrysis sinensis*: Kimsey and Bohart 1991: 463 (cat., *ignita* group); Kurzenko and Lelej 2007: 1005 (China, cat.).

**Distribution.** China (Shanghai). Japan (Kimsey and Bohart 1991).

150. *Chrysis spinidens* Mocsáry, 1887
http://species-id.net/wiki/Chrysis_spinidens

*Chrysis (Tetrachrysis) spinidens* Mocsáry (inédite) in Radoszkowski, 1887: 48. Holotype ♂, Mongolia [= China]: Zaïdam (48 (descr.), depository: ISEA-PAS)*.

*Chrysis spinidens*: Dalla Torre 1892: 97 (Mongolia [= China], cat.); Kimsey and Bohart 1991: 464 (Mongolia [= China], cat.).

*Chrysis (Tetrachrysis) spinidens*: Bischoff 1913: 59 (Mongolia [= China], cat.).

**Distribution.** China (Qinghai).

**Remarks.** It belongs to the *ignita* group.
151. *Chrysis splendidula* Rossi, 1790
http://species-id.net/wiki/Chrysis_splendidula

*Chrysis splendidula* Rossi, 1790: 76. Syntypes, Italy (76 (descr.), depository: MNHU)*.

*Chrysis (Tetrachrysis) splendidula*: Tsuneki 1953a: 59 (Manchuria: Ronshui near Heiho, tax., distr.); Tsuneki 1953b: 26 (Manchuria, cat., distr.).

*Chrysis (Chrysis) splendidula*: Linsenmaier 1959: 127 (tax., descr., distr., *splendidula* group), 203 (fig. 301).

*Chrysis splendidula*: Kimsey and Bohart 1991: 341 (fig. 111g), 465 (cat., *splendidula* gr.).

**Distribution.** China (Heilongjiang). Widely distributed in the Palaearctic Region from south Europe and North Africa to Central Asia, Korea and Japan (Kimsey and Bohart 1991).

152. *Chrysis strauchi* Semenow, 1892
http://species-id.net/wiki/Chrysis_strauchi
Plate 54

*Chrysis Strauchi* Semenow, 1892a: 85. Holotype ♂, Chinese Turkestan [= Xinjiang]: oasis Sandzhu (85 (descr.), depository: ZIN)*.

*Chrysis (Tetrachrysis) stranchi* (!): Bischoff 1910: 483 (Chinese Turkestan [= Xinjiang], cat.).

*Chrysis (Tetrachrysis) strauchi*: Bischoff 1913: 60 (Chinese Turkestan [= Xinjiang], cat.).

*Chrysis strauchi*: Kimsey and Bohart 1991: 466 (China [Xinjiang], cat., *comparata-scutellaris* group); Kurzenko and Lelej 2007: 1005 (China: Xinjiang, cat.).

**Distribution.** China (Xinjiang).

153. *Chrysis taihorina* Mocsáry, 1913
http://species-id.net/wiki/Chrysis_taihorina
Plate 55

*Chrysis (Tetrachrysis) taihorina* Mocsáry, 1913b: 617. Holotype ♂, Taiwan: Taihorin (617 (descr.), 619 (Taiwan, cat.), depository: HNHM)*.

*Chrysis (Tetrachrysis) taihorina*: Uchida 1927: 151 (Taiwan, cat.); Uchida 1933: 5 (Taiwan, cat.).

*Chrysis taihorina*: Tsuneki 1970b: 16 (Taiwan, cat.).

*Chrysis taihorina*: Kimsey and Bohart 1991: 469 (Taiwan, cat., *ignita* group).

**Distribution.** China (Taiwan).
154. *Chrysis taiwana* Tsuneki, 1970
http://species-id.net/wiki/Chrysis_taiwana

*Chrysis* (*Chrysura*) *taiwana* Tsuneki, 1970b: 7. Holotype ♂, Taiwan [Pintung Province]: Hengchun (7 (tax., descr., figs 9–13), 8 (Taiwan, Hengchun), depository: OMNH).

*Chrysis taiwana*: Kimsey and Bohart 1991: 470 (Taiwan, cat., *capitalis* group).

**Distribution.** China (Taiwan).

155. *Chrysis takasago* Tsuneki, 1963
http://species-id.net/wiki/Chrysis_takasago

*Chrysis* (*Hexachrysis*) *takasago* Tsuneki, 1963a: 4. Syntypes ♀♀, Taiwan: Gyochi, Taihoku, Shinka, Kuraru, Urai (1 (Taiwan, key), 4 (tax., descr.), 5 (comp. notes, figs 10–12), depository: OMNH).

*Chrysis* (*Pyria*) *principalis* ssp. *takasago*: Tsuneki 1970b: 19 (Taiwan: Ilan, Hualien, Nantou, Taitung, Pingtung, tax., aberr.).

*Chrysis takasago*: Kimsey and Bohart 1991: 470 (Taiwan, cat., *smaragdula* group).

**Distribution.** China (Taiwan).

156. *Chrysis takeuchii* Tsuneki, 1950
http://species-id.net/wiki/Chrysis_takeuchii

*Chrysis* (*Tetrachrysis*) *takeuchii* Tsuneki, 1950: 76. Holotype ♀, Taiwan: Horisha (76 (descr.), 77 (type series: Taiwan: Horisha, Takesaki), depository: OMNH).

*Chrysis* (*Chrysis*) *takeuchii*: Tsuneki 1970b: 14 (Taiwan: Nanshanchi, tax., descr.), 15 (figs 40–41).

*Chrysis takeuchii*: Kimsey and Bohart 1991: 470 (Taiwan: Horisha, cat.).

**Distribution.** China (Taiwan).

157. *Chrysis talitha* Mocsáry, 1913
http://species-id.net/wiki/Chrysis_talitha
Plate 56

*Chrysis* (*Tetrachrysis*) *Talitha* Mocsáry, 1913b: 616. Holotype ♀, Taiwan: Taihorinsho (616 (descr.), 619 (Taiwan, cat.), depository: HNHM)*.

*Chrysis* (*Tetrachrysis*) *talitha*: Uchida 1927: 152 (Taiwan, cat.); Uchida 1933: 5 (Taiwan, cat.).
Chrysis (Chrysis) talitha: Tsuneki 1970b: 15 (Taiwan: Taihorinsho, cat.).
Chrysis talitha: Kimsey and Bohart 1991: 470 (Taiwan: Taihorinsho, cat., splendidula-senegalensis group).

**Distribution.** China (Taiwan).

158. *Chrysis tibetana* Mocsáry, 1914
http://species-id.net/wiki/Chrysis_tibetana
Plate 57

*Chrysis* (*Tetrachrysis*) *tibetana* Mocsáry, 1914: 43. Lectotype ♂ design. by Bohart (in Kimsey and Bohart 1991: 471), Tibet: Gyantse (depository: BMNH)*.

*Chrysis tibetana*: Kimsey and Bohart 1991: 471 (Tibet: Gyantse, lectotype design., cat., ignita group).

**Material examined.** Tibet: Paralectotypes, 1 ♂, Gyantse. 13,000ft June 1904 Tibet Exp. H.J. Walton 1905–173; 1 ♀, Tibet: Kyishong. 14,500 ft 10.VII.1924 Maj. R.W.G.Hingston / Everest Exp. Brit. Mus. 1924–386; both specimens identified by Linsenmaier in 1966 (NMLS).

**Distribution.** China (Tibet).

159. *Chrysis tsingtauensis* Bischoff, 1910
http://species-id.net/wiki/Chrysis_tsingtauensis

*Chrysis* (*Tetrachrysis*) *tsingtauensis* Bischoff, 1910: 482. Lectotype ♂ design. by Bohart (in Kimsey and Bohart 1991: 471), China [Qingdao]: Kiautschau [= Jiaozhou Bay], Tsingtau (MNHU)*.

*Chrysis tsingtauensis*: Bischoff 1913: 60 (Tsingtau, cat.).

*Chrysis tsingtauensis*: Kimsey and Bohart 1991: 471 (China [Qingdao]: Kiautschau, Tsingtau, lectotype design., cat., ignita group).

**Material examined.** 1 ♂, Shanghai, 15.V.1923; 1 ♀, China “C.F.”, Lju Coll.; both specimens identified by Linsenmaier 1966, but to be considered as doubtful identifications.

**Distribution.** China (Shandong, Shanghai).

160. *Chrysis varicolor* Smith, 1874
http://species-id.net/wiki/Chrysis_varicolor

*Chrysis varicolor* Smith, 1874b: 482. Holotype ♂, China [Fujian]: Foochow [= Fuzhou] (482 (descr.), depository: BMNH).

*Chrysis* (*Tetrachrysis*) *variicolor* (!): Mocsáry 1889: 539 (China: Ta-tschian-sy, tax., descr.).
**Chrysis variicolor (!):** Dalla Torre 1892: 105 (China borealis, cat.).

**Chrysis (Hexachrysis) variicolor (!):** Bischoff 1913: 68 (North China, cat.).

**Chrysis varicolor:** Kimsey and Bohart 1991: 474 (cat., *ignita* group); Kurzenko and Lelej 2007: 1005 (China: Fujian, cat.).

**Distribution.** China (Fujian).

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**161. Chrysis vicaria** Mocsáry, 1913

http://species-id.net/wiki/Chrysis_vicaria

Plate 58

**Chrysis (Hexachrysis) vicaria** Mocsáry, 1913a: 11. Lectotype ♂ design. by Bohart (in Bohart and French 1986: 343), China: Taiwan: Taihorinsho (11 (descr.), 12 (type series: Takao, Fuhosho, Tainan, Taihorinsho), depository: HNHM)*.

**Chrysis (Hexachrysis) vicaria:** Mocsáry 1913b: 619 (Taiwan: Anping, Takao, Taihorinsho, Tainan, Fuhosho, cat.); Bischoff 1913: 68 (Taiwan, cat.); Uchida 1927: 152 (Taiwan, cat.).

**Chrysis (Hexachrysis) fasciata vicaria:** Tsuneki 1962: 2 (Taiwan, cat.); Tsuneki 1963a: 1 (Taiwan and probably eastern coast of China, key), 6 (tax., descr.), 7 (Taiwan, comp. notes, figs 13–15), 9 (comp. notes).

**Chrysis (Pyria) fasciata vicaria:** Tsuneki 1970b: 19 (Taiwan: Ilan, Nantou, Pingtung, cat.); Tsuneki 1970c: 49 (Taiwan, key, tax.).

**Chrysis vicaria:** Kimsey and Bohart 1991: 476 (Taiwan: Taihorinsho, cat., *smaragdula* group); Terayama et al. 2010: 9 (China (?), Taiwan, cat.).

**Material examined.** 1♀, Taiwan; Kosempo 7–19.IV.1908 leg. H. Sauter, identified by Linsenmaier 1973 (NMLS).

**Distribution.** China (Taiwan).

**Remarks.** Tsuneki (1962, 1963a, 1970b) considered *C. vicaria* as a subspecies of *C. fasciata* Olivier, 1790.

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**162. Chrysis violenta ultramonticola** Linsenmaier 1968

http://species-id.net/wiki/Chrysis_violenta_ultramonticola

**Chrysis (Chrysis) violenta ssp. ultramonticola** Linsenmaier, 1968: 97. Holotype ♀, Tibet: Tropde, 11.000 ft (97 (Tibet: Tropde, 11.000 ft; Rongshar, 13.000 ft, descr.), *ignita* group, depository: BMNH).

**Chrysis violenta:** Kimsey and Bohart 1991: 477 (Tibet, Everest Region: Tropde, cat., *ignita* group).

**Distribution.** China (Tibet). Nepal (Boesi et al. 2005).

**Host.** Boesi et al. (2005) found three specimens of *C. violenta ultramonticola* in the nest of *Ancistrocerus sikhimensis* Bingham (Hymenoptera, Vespidae, Eumeninae).
An annotated checklist of the chrysidid wasps (Hymenoptera, Chrysididae) from China

163. _Chrysis viridula_ Linnaeus, 1761

http://species-id.net/wiki/Chrysis_viridula

_Chrysis viridula_ Linnaeus, 1761: 415. Holotype ♂; Europe (415 (descr.), depository: LSL).
_Chrysis_ (Tetrachrysis) _viridula_ f. _apicata_ Uchida, 1927: Tsuneki 1948b: 47 (Manchuria, tax.).
_Chrysis_ (Tetrachrysis) _viridula_: Tsuneki 1953a: 59 (Manchuria [Jilin]: Chintsang, North of Kunchun, tax., distr.).

_Chrysis_ (Chrysis) _viridula_: Linsenmaier 1959: 129 (key, _viridula_ group), 130 (tax., descr.), 203 (fig. 304), 211 (figs 561, 562).

_Chrysis viridula_: Kimsey and Bohart 1991: 329 (fig. 107a), 341 (fig.111h), 367 (cit.), 329 (fig. 197a), 341 (fig. 111h), 477 (cat.).

**Distribution.** China (Jilin). Widely distributed in the Palaearctic to Russian Far East (Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

**Remarks.** In Kimsey and Bohart (1991) _Chrysis viridula_ var. _apicata_ Uchida, 1927 from Japan is included in the synonymic list for _viridula_, but according to Tsuneki (1948b, 1953a), it is a synonym of _splendidula_ Rossi, 1790.

164. _Chrysis volatilis_ Smith, 1874

http://species-id.net/wiki/Chrysis_volatilis

_Chrysis volatilis_ Smith, 1874b: 459. Holotype ♀, Shanghai (459 (descr.), depository: BMNH).

_Chrysis_ (Tetrachrysis) _volatilis_: Mocsáry 1889: 374 (Shanghai, descr., cat.); Bischoff 1913: 61 (North China, cat.).

_Chrysis volatilis_: Dalla Torre 1892: 109 (Shanghai, cat.); Kimsey and Bohart 1991: 478 (China: Shanghai, cat., _ignita_ group); Kurzenko and Lelej 2007: 1005 (China: Shanghai cat.).

**Distribution.** China (Shanghai).

16. Genus _Chrysura_ Dahlbom, 1845

165. _Chrysura hirsuta_ (Gerstaecker, 1869)

http://species-id.net/wiki/Chrysis_hirsuta

_Chrysura hirsuta_ Gerstaecker, 1869: 185. Holotype ♀, Austria: Ober-Kärnthen (depository: MNHU)*.

_Chrysura davidi_ du Buysson, 1898a: 524. Holotype ♀, China: Jehol [= Johol] (depository: MNHN).

_Chrysura davidi_: du Buysson, 1899: 163 (China, cat.).

_Chrysura_ (Holochrysis) _davidi_: Bischoff 1913: 38 (North China, cat.); Tsuneki 1948a: 125a (China: Shanxi: Hengshuichen-Hengligkuan, cat., distr.); 128 (China: Bei-
jing distr., Manchuria, Shanxi, cat.); Tsuneki 1948b: 47 (North China: Rehe, Shanxi, tax.); 51 (résumé); Tsuneki 1950: 67 (comp. notes); Tsuneki 1953b: 24 (North China, (Johol, Shanxi), cat.); Linsenmaier 1959: 79 (synonym of hirsuta).

*Chrysis (Chrysogona) hirsuta:* Linsenmaier 1959: 79 (key, tax., descr., biol., pustulosa group), 202 (fig. 244).

*Chrysis hirsuta:* Móczár 1967: 73 (China, key, tax., descr., biol.).

*Chrysura hirsuta:* Kimsey and Bohart 1991: 490 (cat., radians group); Kurzenko and Lelej 2007: 1006 (China, cat.); Terayama et al. 2010: 4 (fig.), 9 (China, cat.), 12 (tab., biol.).

Material examined. 1 ♀, Kouy-Théou Cavalaire, 1921 (NMLS).

**Distribution.** China (Liaoning, Hebei, Beijing, Shanxi, Guizhou). Central Europe and Fennoscandia, south European mountains, Korea, Japan (Linsenmaier 1959; Tsuneki 1953b).

**Remarks.** Tsuneki (1948b) placed *C. iwatai* Tosawa, 1942 in synonym of *C. davidi* du Buysson. *C. iwatai* is considered as a valid species in the genus *Chrysis* by Kimsey and Bohart (1991: 426). Tsuneki (1950: 67) provided a comparison of *C. (Holochrysis) davidi* and *C. koma* Tsuneki, 1950. *Osmia orientalis* (Hymenoptera, Megachilidae) is recorded as its host (Terayama et al. 2010).

**166. Chrysura refulgens** (Spinola, 1806)

http://species-id.net/wiki/Chrysis_refulgens

*Chrysis refulgens* Spinola, 1806: 8. Holotype ♀, Italy (8 (descr.), depository: MRSN)*.

*Chrysis artifex* Smith, 1874b: 456. Holotype ♂, Hong Kong (456 (descr.), depository: BMNH) (synonymised by Kimsey and Bohart 1991).

*Chrysis (Holochrysis) artifex:* Mocsáry, 1889: 247 (tax., descr.), 248 (Hong Kong), Bischchoff 1913: 37 (North China, cat.).

*Chrysis artifex:* Dalla Torre 1892: 44 (China, cat.).

*Chrysura refulgens:* Kimsey and Bohart 1991: 495 (cat., radians group).

**Distribution.** China (Hong Kong). Widely distributed in the Mediterranean basin (Linsenmaier 1959).

**17. Genus Euchroeus Latreille, 1809**

**167. Euchroeus mongolicus** Tsuneki, 1947

http://species-id.net/wiki/Euchroeus_purpuratus_mongolicus

Plate 59

*Euchroeus purpuratus* f. *mongolicus* Tsuneki, 1947: 54. Holotype ♀, China: Inner Mongolia: Apaka (54 (descr., biol.), 55 (ecol.), depository: NIAS).
**Euchroeus purpuratus mongolicus**: Tsuneki 1948a: 124 (China: Manchuria, Nanpintsun, tax., descr.), 128 (Shanxi, cat.).

**Euchroeus (Euchroeus) mongolicus**: Linsenmaier 1959: 73 (Mongolia [= Inner Mongolia], tax., descr.), 200 (fig. 213).

**Brugmoia quadrata** (Shuckard, 1837): Kimsey and Bohart 1991: 296 (cat.).

**Material examined.** Paratypes, 2♂♂ 2♀♀, Apaka, Inner Mongolia, 4.VI.1939, K. Tsuneki, Euchroeus purpuratus mongolicus m. (NMLS).

**Distribution.** China (Inner Mongolia, Shanxi).

**Host.** Possible host is *Podalonia caucasica* Morawitz (Hymenoptera, Sphecidae).

**Remarks.** *Euchroeus mongolicus* was synonymised with *Brugmoia quadrata* (=*Euchroeus purpuratus*) by Kimsey and Bohart (1991). But, the generic name *Euchroeus* Latreille, 1809 and specific name *Chrysis purpurata* Fabricius, 1787 were conserved by ICZN (1998). As a result the generic name *Brugmoia* Radoszkowski, 1877 (used by Kimsey and Bohart (1991)) is a junior synonym of *Euchroeus* Latreille, 1809, and the name *quadrata* is a junior synonym of *purpurata*.

*E. mongolicus* is well characterized by the male’s colouration (similar to that of the female, in contrast with the green-blue colouration of the males belonging to this genus) and by its sparse punctuation, the smallest mandibles and shorter tongue compared with the typical *E. purpuratus*.

**168. Euchroeus orientis** (Semenov-Tian-Shansky, 1909)

[http://species-id.net/wiki/Pseudochrysis_purpurata_orientis](http://species-id.net/wiki/Pseudochrysis_purpurata_orientis)

Plates 60, 61

**Pseudochrysis purpurata** ssp. *orientis* Semenov-Tian-Shansky, 1909: 214 [ne Euchroeus].

Lectotype ♂ design. by Kimsey (in Kimsey and Bohart 1991: 296), Dzungaria Chinense [= Xinjiang]: Bugas near Hami (depository: ZIN)*.

**Euchroeus purpuratus** var. *orientalis* (!): Bischoff 1913: 29 (Dzungaria).

**Brugmoia purpurata** ssp. *orientis*: Kimsey and Bohart 1991: 296 (China: Dzungaria Chinense [= Xinjiang]: Hami, cat.).

**Material examined.** Paralectotype, 1♀, Dzungaria Chinense [= Xinjiang]: Bugas near Hami, 7.IX.1895, expedition Kozlov (ZIN).

**Distribution.** China (Xinjiang).

**Remarks.** The oriental specimens examined (from China to Kyrgyzstan) are differentiated from the typical *Euchroeus purpuratus* (Fabricius, 1787) and are considered as a valid species. The coarse body sculpture and different colouration between the two demonstrate that they are different species.
18. Genus *Praestochrysis* Linsenmaier, 1959

169. *Praestochrysis lachesis* (Mocsáry, 1913)

http://species-id.net/wiki/Chrysis_lachesis
Plate 62

*Chrysis* (*Pentachrysis*) *lachesis* Mocsáry, 1913a: 7. Holotype ♂, Taiwan: Taihorisho (7 (descr.), depository: HNHM)*.

*Chrysis* (*Pentachrysis*) *lachesis*: Mocsáry 1913b: 619 (Taiwan, cat.); Bischoff 1913: 62 (Taiwan, cat.); Uchida 1927: 152 (Taiwan, cat.); Tsuneki 1955: 35 (key), 40 (tax., descr.), 41 (Taiwan: Taihorihsho); Tsuneki 1970b: 18 (Taiwan, cat.).

*Chrysis* (*Pentachrysis*) *basilacuna* Sugihara, 1932: 372. Type ?; Taiwan (372 (descr.), depository unknown).

*Chrysis* (*Pentachrysis*) *basilacuna*: Tsuneki 1955: 35 (key), 41 (tax., descr.), 42 (figs 7–14), 43 (Taiwan: Taihoku); Tsuneki 1970b: 18 (synonym of *lachesis*).

*Praestochrysis lachesis*: Kimsey and Bohart 1991: 532 (Taiwan, cat.).

**Distribution.** China (Taiwan).

**Remarks.** Tsuneki (1955) assumed that *C. lachesis* was a synonym of *C. basilacuna*. According to his description, the only distinguishing characteristic between the two species is the length of the antennal segments, which we think that could be a sexual dimorphic characteristic. Tsuneki was not able to study the type of *C. lachesis* and postponed discussion of the possible synonymy. Later, Tsuneki (1970b) considered *C. basilacuna* a synonym of *C. lachesis* without further discussion, but he surely examined all of the material available in the area. Kimsey and Bohart (1991) did not examine the type of *C. basilacuna* and placed it in the genus *Chrysis*. However, the anal margin of the third tergite with five teeth excludes this species from the genus *Chrysis* s. str., and we agree with Tsuneki’s interpretation.

170. *Praestochrysis ribbei* (Mocsáry, 1889)

http://species-id.net/wiki/Chrysis_ribbei
Plate 63

*Chrysis* (*Pentachrysis*) *ribbei* Mocsáry, 1889: 524. Lectotype ♂ design. by Bohart (in Bohart and French 1986: 342), Celebes (depository: HNHM)*.

*Chrysis* (*Pentachrysis*) *shanghhaiensis* var. *ribbei*: Bischoff 1910: 486 (China: Canton [= Guangzhou], cat.).

*Chrysis* (*Pentachrysis*) *ribbei*: Tsuneki 1955: 43 (possible syn. of *Praestochrysis shangh haiensis*).

*Praestochrysis ribbei*: Kimsey and Bohart 1991: 534 (cat.).

**Distribution.** China (Guangdong). Indonesia, Thailand (Kimsey and Bohart 1991).
171. *Praestochrysis shanghaiensis* (Smith, 1874)
http://species-id.net/wiki/Chrysis_shanghaiensis

*Chrysis Shanghaiensis* Smith, 1874b: 460. Holotype ♀, China: Shanghai (469 (descr.), depository: BMNH).

*Chrysis* (*Pentachrysis*) *mandarina* Mocsáry, 1889: 522. Holotype ♀, China: Ta-tschian-sy (522 (descr.), depository: HNHM) (synonymised by Kimsey and Bohart 1991: 534).

*Chrysis* (*Pentachrysis*) *shanghaiensis*: Mocsáry, 1889: 522 (China borealis, tax., descr.); Bischoff 1910: 486 (China [Shandong]: Kiautschou [= Jiaozhou Bay], cat.); Bischoff 1913: 63 (North China, cat.); Uchida 1927: 152 (North China, Taiwan, cat.); Tsuneki 1953a: 60 (South Manchuria [Liaoning]: Dairen [= Dalian], Tashonshan, tax.); Tsuneki 1955: 36 (key), 43 (tax.), 44 (descr., figs 15–20, 46 (China, Dairen [= Dalian], Taiwan, biol.); Tsuneki 1970b: 18 (Taiwan: Penpuchi, Kuanfu, cat.); Tsuneki 1970c: 49 (eastern part of China, Manchuria, North China, key, tax.).

*Chrysis shanghaiensis*: Dalla Torre 1892: 95 (China borealis, cat.); du Buysson 1898c: 82 (China: Tché-li, Han-Kèou, Shanghai, tax., biol., morphology), pl. 1 (figs 1–7); du Buysson 1901a: 29 (China: Tché-li, Shanghai, tax., biol.); Seurat 1901: 236 (Shanghai, tax., biol.); Bingham 1903: 438 (key), 477 (tax., descr.), 478 (China, distr.); Hammer 1950: 1 (China: Kiansu [= Jiangsu], cat.).

*Praestochrysis shanghaiensis*: Kimsey and Bohart 1991: 534 (China, cat.); He et al. 2004: 889 (cat.); Kurzenko and Lelej 2007: 1006 (China, Taiwan, cat.); Terayama et al. 2010: 6 (figs.), 9 (China, Taiwan, cat.), 12 (tab., biol.).

**Material examined.** 1 ♂, China, 1947, Ming Po, Coll. Linsenmaier; 1 ♀ / J. de Joannis / with pinned cocoon; 1 ♂, [Hori, Formosa, 25.V.’32 / L. Gressitt Collection; 1 ♂, China, Ningpo, 1. –5.7.1934, Naef; 2 ♀♀, Chusan [= Zhoushan, Zhejiang] China, Juni, 1948, Collect. Naef. All the specimens were identified by Linsenmaier (NMLS).

**Distribution.** China (Liaoning, Jiangsu, Shandong, Jiangsu, Shanghai, Zhejiang, Taiwan, Jiangxi, Hubei, Hunan). Japan, Indin (He et al. 2004).

**Host.** *Monema flavescens* (Lepidoptera, Limacodidae) (du Buysson 1898c, 1901a, Seurat 1901). Various studies on the parasitism by *P. shanghaiensis* have been published (Yamada 1980, 1987a, 1987b, 1988, 1990, 1991; Komeda and Hisamatsu 2005).

19. **Genus Primeuchroeus** Linsenmaier, 1968

172. *Primeuchroeus crassiceps* (Tsuneki, 1970)
http://species-id.net/wiki/Chrysis_crasiceps

*Chrysis (Chrysura) crassiceps* Tsuneki 1970b: 8. Holotype ♀, Taiwan: Chiai Province: Kuanhua (8 (tax., descr., figs 12–22), 9 (Taiwan: Kuanhua, descr.), depository: NIAS).
Primeuchroeus crassiceps: Bohart 1988: 22 (fig.1), 23 (key); Kimsey and Bohart 1991: 541 (Taiwan: Chiai Prov.: Kuanhua, cat., *siamensis* group); Wei et al., 2014a: 45 (key, tax., descr.), 46 (figs 1–2, ♂), 47 (figs 3–9, ♀, *siamensis* group), 48 (figs 10–11, ♂), 49 (figs 12–18, ♀).

**Distribution.** China (Taiwan, Yunnan).

173. *Primeuchroeus kansitakuanus* (Tsuneki, 1970)
http://species-id.net/wiki/Chrysis_kansitakuanus

*Chrysis kansitakuanus* Tsuneki 1970b: 9. Holotype ♂, Taiwan: Chiai Province: Kansitaku (9 (tax., descr.), 10 (Taiwan, Kansitaku, descr., figs 23–26, comp. notes), depository: OMNH, not NIAS).

*Primeuchroeus kansitakuanus*: Bohart 1988: 22 (fig.2), 23 (key); Kimsey and Bohart 1991: 542 (*ghilianii* group); Wei et al. 2014a: 45 (key), 48 (China: Zhejiang: Lin’an, Mt. Qingliangfeng; Fujian: Da’an; Hubei, Jingmen, Jingshan; Hunan: Mt. Huping, Shinianzigou; Mt. Huping, Shinianzigou; Mt. Huping, Zongfeng; Mt. Huping, Shuawu village; Huaihua; Guangzhou: Wangzishan Forest Park; Liuxihe Forest Park; Guangdong: Chebaling National Nature Reserve; Hainan: Mt. Wu-zhi; Guizhou: Tianzhu; Mayang River, Dahe Dam; Yunnan: Jinggu, Yunhai Reserve; Yingjiang: Chenggong, Luoyang, tax.), 50 (figs 19–20, ♂), 51 (figs 21–27, ♀, descr.), 52 (biol., *ghiliani* group).

**Distribution.** China (Zhejiang, Fujian, Taiwan, Hubei, Hunan, Guangdong, Hainan, Guizhou, Yunnan). Malaysia, Viet Nam (Kimsey and Bohart 1991).

174. *Primeuchroeus yongdaerianus* Kim, 2013
http://species-id.net/wiki/Primeuchroeus_yongdaerianus

*Primeuchroeus yongdaerianus* Kim, 2013: 95. Holotype ♂, Korea: Inje-gun, Buk-my-eon, Yongda-ri (95 (tax., descr.), 96 (figs 1A–1D, ecol., comp. notes).

*Primeuchroeus yongdaerianus*: Wei et al. 2014a: 45 (key), 52 (China: Yunnan: Gaoligongshan National Nature Reserve; Mailongxia, tax., descr.), 53 (figs 28–29), 54 (figs 30–36), 55 (biol., *siamensis* group).

**Distribution.** China (Yunnan). Korea (Kim 2013).
20. Genus *Pseudospinolia* Linsenmaier, 1951

175. *Pseudospinolia humboldti* (Dahlbom, 1845)
http://species-id.net/wiki/Chrysura_humboldti

*Chrysura humboldti* Dahlbom, 1845: 6. Holotype ♂, Rhodes (6 descr., depository: NHRS)*.

*Pseudochrysis humboldti*: Tsuneki 1953a: 58 (China, tax.).

*Euchroeus (Pseudospinolia) humboldti*: Linsenmaier 1959: 67 (key, descr.), 201 (fig. 227).

*Pseudospinolia humboldti*: Kimsey and Bohart 1991: 547 (cat., distr.).

**Distribution.** China (Shanxi). Widely distributed in the Palaearctic Region (Kimsey and Bohart, 1991).

176. *Pseudospinolia incrassata* (Spinola, 1838)
http://species-id.net/wiki/Chrysis_incrassata

*Chrysis incrassata* Spinola, 1838: 454. Syntypes ♀♀, Corse (454 descr., depository: MRSN)*.

*Pseudochrysis incrassata*: Tsuneki 1953a: 57 (Manchuria [Liaoning]: Dairen [= Dalian], cat., distr.).

*Euchroeus (Pseudospinolia) incrassata*: Linsenmaier 1959: 67 (key, tax.), 68 (distr., descr.), 200 (fig. 207).

*Pseudospinolia incrassata*: Kimsey and Bohart 1991: 546 (fig. 138f), 547 (cat., distr.).

**Distribution.** China (Liaoning). Widely distributed in the Palaearctic Region (Linsenmaier 1959).

177. *Pseudospinolia neglecta* (Shuckard, 1837)
http://species-id.net/wiki/Chrysis_neglecta

*Chrysis neglecta* Shuckard, 1837: 169. Lectotype ♀ design. by Morgan (1984: 9), England (depository: BMNH).

*Pseudochrysis neglecta*: Trautmann 1927: 92 (key), 99 (Tianshan [Xinjiang ?], descr., biol., distr.).

*Euchroeus (Pseudospinolia) neglectus*: Linsenmaier 1959: 65 (key), 66 (tax., descr.), 200 (fig. 206).

*Pseudospinolia neglecta*: Kimsey and Bohart 1991: 546 (fig. 138c), 548 (cat.); Rosa 2006: 30 (biol.), 32 (biol.), 40 (ecol.), 52 (ecol.), 55 (biogeogr.), 78 (cat.), 200 (China, tax., descr., biol.).

**Distribution.** China (Xinjiang?). Widely distributed in the Palaearctic Region (Bohart and Kimsey 1991).
21. Genus *Stilbum* Spinola, 1806

178. *Stilbum calens* (Fabricius, 1781)
http://species-id.net/wiki/Chrysis_calens

*Chrysis calens* Fabricius, 1781: 455. Holotype ♀, Siberia (455 (descr.), depository: BMNH)*.

*Stilbum splendidum* var. *calens*: du Buysson 1900: 156 (China: Beijing, cat.).

*Stilbum cyanurum* var. *calens*: Hammer 1936: 3 (China [Inner Mongolia]: Hurtjertu Gol, tax.).

*Stilbum cyanurum cyanurum* f. *calens* (!): Tsuneki 1947: 53 (China [Inner Mongolia]: Apaka); Tsuneki 1948a: 124 (China: Shanxi: Nanpintsun, Manchuria: Tonei, tax., distr.), 128 (Shanxi, cat.); Tsuneki 1953a: 58 (Manchuria [Liaoning]: Dairen [= Dalian], Tungning, cat., distr.).

*Stilbum calens* ssp. *zimmermanni* Linsenmaier, 1959: Linsenmaier 1968: 123 (China, cat.).

*Stilbum calens* ssp. *wesmaeli* Dahlbom, 1845: Linsenmaier 1997b: 134 (China, tax., descr.).

**Material examined.** 1♂, Valley of the river Kuldgi, V.VI.1878, leg. Regel (ZIN). 1♂, Alashan, Din-yuan-in, 8.–9.VI.1908, expedition Kozlov (ZIN).

**Distribution.** China (Liaoning, Beijing, Inner Mongolia, Shanxi). Widely distributed in the Palaearctic Region (Tsuneki 1948a; Linsenmaier 1959).

179. *Stilbum cyanurum* (Forster, 1771)
http://species-id.net/wiki/Chrysis_cyanura

*Chrysis cyanura* Forster, 1771: 89. Holotype ♂, Spain (89 (descr.), depository: BMNH). *Chrysis splendida* Fabricius, 1775: 357. Syntypes, Australia (357 (descr.), depositories: BMNH, ZMU)*.

*Chrysis amethystina* Fabricius, 1775: 359. Syntypes, Australia (359 (descr.), depositories: BMNH, ZMU).

*Stilbum splendidum*: Smith 1864: 144 (China, tab.); Radoszkovsky 1866: 14 (China, cat.); du Buysson 1900: 156 (China: Hong Kong, cat.).

*Stilbum splendidum* var. *caspicum* du Buysson (In André), 1896: 680. Syntypes, Turkmenistan: Otreck, Ethiopia: Abissinia (680 (descr.), depository: ISEA-PAS, MNHN)*.

*Stilbum cyanurum*: du Buysson 1898a: 544 (China: Kiang-si [= Jiangxi], cat.); du Buysson 1899: 169 (China, cat.); Hammer 1936: 3 (China [Inner Mongolia]: Hurtjertu Gol, cat.); Tsuneki 1948b: 50 (Manchuria, North China, Taiwan, tax.); Kimsey and Bohart 1991: 567 (cat.), Kurzenko and Lelej 2007: 1006 (China, cat.); Terayama et al. 2010: 6 (fig.), 9 (China, Taiwan, cat.), 12 (tab., biol.), 13 (fig. 4).
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**Stilbum splendidum** var. *caspicum*: du Buysson 1898a: 561 (China, cat.); Zimmermann 1937: 657 (tax.).

**Stilbum splendidum** var. *amethystinum*: Mocsáry 1913b: 613 (tax.), 614 (Taiwan, cat.); du Buysson 1898a: 561 (China, cat.); Uchida 1927: 151 (Taiwan, China, cat.); Yasumatsu 1938: 73 (China, cat.).

**Stilbum cyanurum** var. *auratum*: Trautmann, 1920: 240. Holotype ♀, China (240 descr., depository: MNHU); Trautmann 1927: 81 (China, tax.), 82 (Central China, Kansu, tax.).

**Stilbum cyanurum** var. *splendidum*: Uchida 1927: 151 (Taiwan, cat.); Tsuneki 1970b: 19 (cat.), 20 (Taiwan: Ilan Province: Chuantou, Tsukeng; Hualien Province: Liyuchih; Nantou Province: Puli, Jiyyuehtan; Taitung Province: Chihpenchi; Pingtung Province: Checheng, Kentin Park, tax.).

**Stilbum cyanurum** cyanurum: Zimmermann 1937: 650 (East China, tax., distr.), 656 (Central China, type); Tsuneki 1947: 52 (China: Shanxi, tax.); **Stilbum cyanurum**: Hammer 1950: 1 (China: Kiangsu [= Jiangsu], tax.); Tsuneki 1953a: 24 (North China, Manchuria, tax.); **Stilbum cyanurum cyanurum**: Tsuneki 1953b: 58 (Manchuria: Chinchow, cat.); Linsenmaier 1959: 58 (Manchuria: Chinchow, cat.); Linsenmaier 1959: 52 (China: Shanxi, tax.); **Stilbum cyanurum**: Hammer 1950: 1 (China: Kiangsu [= Jiangsu], tax.); Tsuneki 1953a: 24 (North China, Manchuria, tax.); **Stilbum cyanurum cyanurum**: Tsuneki 1953b: 58 (Manchuria: Chinchow, cat.); Linsenmaier 1959: 180 (key, tax.), 181 (China, descr.), 216 (fig. 686); **Stilbum cyanurum cyanurum**: Móczár 1967: 117 (key, tax., descr.), 118 (Manchuria, biol.).

**Stilbum cyanurum** f. *auratum*: Zimmermann 1937: 656 (Central China, tax.).

**Stilbum calens** ssp. *auratum*: Linsenmaier 1959: 182 (China, Kansu, tax.).

**Material examined.** Guandong: 1♂, Canton [= Guangzhou], 1910; Yunnan: 2♂♂, Ta-pin-tze, leg. R.P. Delavay; 1♀, Macao; 1♂, Taiwan, Takao, 1923; 1♀, id., 29.IX.1907; 1♀, Taihanroku; 1♀, Taipei, 1.V.1976; all the specimens identified by Linsenmaier (NMLS). 1♂, Alashan, Din-yuan-in, 17.–20.VIII.1908, leg. Kozlov (ZIN). 62 exx. under the name *S. cyanurum auratum* housed in ZIN with the following labels: 17.–20.VIII.1908 and 22.IV.1909, leg. Kozlov; Alashan, Golih-Goli Canyon; Alashan, Shan-Shun Canyon, 17.–18.VI.1908, leg. Kozlov; Alashan, Din-yuan-in, Alashan, 17.–18.VI.1908 and 22.IV.1909, leg. Kozlov; Alashan, Shan-Shun Canyon, 17.–18.VI.1908, leg. Kozlov.

**Distribution.** China (Liaoning, Inner Mongolia, Shanxi, Gansu, Shandong, Jiangsu, Taiwan, Jiangxi, Guangdong, Hong Kong, Macao, Yunnan). Widely distributed in the Oriental, Palaeartic, Afrotropical and Australian Regions (Kimsey and Bohart 1991).

**22. Genus Trichrysis Lichtenstein, 1876**

180. **Trichrysis cyanea** (Linnaeus, 1758)

http://species-id.net/wiki/Sphex_cyanea

*Sphex cyanea* Linnaeus, 1758: 572. Lectotype ♂ design. by Morgan (1984: 10), Europe (depository: LSL).

*Chrysis* (*Trichrysis*) *cyanea*: Tsuneki 1947: 55 (China: Beijing, cat., distr.); Tsuneki 1950: 70 (comp. notes); Tsuneki 1953a: 58 (Manchuria, Kaiyüan, Shorei, Yiya-
saka, tax., distr.); Tsuneki 1953b: 25 (North China, Manchuria, tax.); Linsenmaier 1959: 169 (key), 170 (tax., descr., biol.), 205 (fig. 383).

*Trichrysis cyanea*: Kimsey and Bohart 1991: 571 (cat.).

**Distribution.** China (Liaoning, Beijing). Widely distributed in Europe and western Asia to Siberia, Russian Far East, Korea and Japan (Kurzenko and Lelej 2007).

181. *Trichrysis imperiosa* (Smith, 1874)
http://species-id.net/wiki/Chrysis_imperiosa

*Chrysis imperiosus* (!) Smith, 1874b: 460. Lectotype ♀ design. by Bohart (in Kimsey and Bohart 1991: 533), Australia: Queensland, Moreton Bay (460 (descr.), depository: BMNH).

*Chrysis imperiosa*: du Buysson 1898a: 536 (“Montagnes de Song-Chaï”, cat.); du Buysson 1899: 168 (China, cat.).

*Chrysis (Pentachrysis) imperiosa*: Mocsáry 1913b: 619 (Taiwan: Juhosho, cat.); Uchida 1927: 152 (Taiwan, cat.;) Tsuneki 1970b: 18 (Taiwan, cat.).

*Chrysis (Trichrysis) imperiosa*: Linsenmaier 1959: 170 (tax., *lusca* group); Linsenmaier 1994: 193 (tax.).

*Praestochrysis imperiosa*: Strumia 1996: 62 (Taiwan, tax.).

**Distribution.** China (Taiwan). Australia, Thailand (Smith, 1874b; Tsuneki, 1963b).

**Remarks.** Linsenmaier (1994, 1997a) and Madl and Rosa (2012) moved the species group *lusca* (including *lusca* and *imperiosa*) from the genus *Praestochrysis* Linsenmaier to genus *Trichrysis* Lichtenstein. Kimsey and Bohart (1991) treated *Praestochrysis imperiosa* (Smith, 1874) as a junior synonym of *P. lusca* (Fabricius, 1804). But *P. imperiosa* is distinctly different from *P. lusca* (Fabricius) (Strumia 1996).

182. *Trichrysis lusca* (Fabricius, 1804)
http://species-id.net/wiki/Chrysis_lusca
Plate 64

*Chrysis lusca* Fabricius, 1804: 171. Holotype ♀, Italy (accidentally introduced) (171 (descr.), depository: ZMU)*.

*Chrysis lusca*: du Buysson 1898a: 536 (Macao, cat.); du Buysson 1899: 168 (China, cat.).

*Chrysis (Pentachrysis) lusca*: Bischoff 1910: 486 (Taiwan, cat.); Mocsáry 1913a: 11 (Taiwan, cat.); Mocsáry 1913b: 619 (Taiwan, cat.); Uchida 1927: 152 (Taiwan, cat.); Tsuneki 1953b: 28 (Taiwan, cat.); Tsuneki 1955: 35 (key), 36 (tax.), 37 (figs 1–6), 38 (East China, Taiwan, distr.); Tsuneki 1970b: 17 (tax.), 18 (Taiwan, Provinces of Taipei, Taoyuan, Illan, Huallien, Nantou, Chiai, Taitung, Pingtung, cat.); Tsuneki 1970c: 49 (Taiwan, key, tax.).
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Pentachrysis lusca: Hammer 1950: 2 (China: Peitaiho, Taiwan, cat.).
Praestochrysis lusca: Kimsey and Bohart 1991: 533 (cat.); Kurzenko and Lelej 2007: 1006 (China, cat.).
Chrysis (Trichrysis) lusca: Linsenmaier 1994: 193 (tax.).

Material examined. 2 ♀♀, Taiwan, Chipon, VIII.1935 leg. K. Iwata, det. Enslin; 1 ♂, Taiwan, Sozan, VIII.1935, leg. K. Iwata det. Linsenmaier (NMLS).

Distribution. China (Hebei, Taiwan, Macao). Widely distributed in the Palaearctic and Oriental Regions (Kimsey and Bohart 1991).

Remarks. Linsenmaier (1994, 1997a) and Madl and Rosa (2012) moved the species group lusca (including lusca and imperiosa) from the genus Praestochrysis Linsenmaier to the genus Trichrysis Lichtenstein.

183. Trichrysis luzonica (Mocsáry, 1889)
http://species-id.net/wiki/Chrysis_luzonica

Chrysis (Trichrysis) luzonica Mocsáry, 1889. 328. Holotype ♂♀, Philippines: Luzon (328 descr., depository: ISEA-PAS).

Chrysis (Trichrysis) talai Tsuneki, 1970b: 11. Holotype ♂, Taiwan; Nanton Province: Puli (11 (tax., descr.), 12 (Taiwan, Puli; Tsukeng, Chantou, Schungchi, Manchou, Oluampi, Kentin Park, Fanshanlu, descr., figs 30–34), depository: OMNH, not NIAS) (synonymised by Kimsey and Bohart 1991: 572).

Trichrysis luzonica: Bohart 1987: 348 (Taiwan, key); Kimsey and Bohart 1991: 572 (Hong Kong, cat.).

Distribution. China (Taiwan, Hong Kong). Philippines (Mocsáry 1889).

184. Trichrysis pellucida (du Buysson, 1887)
http://species-id.net/wiki/Chrysis_pellucida

Chrysis pellucida du Buysson, 1887: 183. Syntypes ♂♂♀, China, Turkey (183 descr., 184 China, depository: MNHN).

Chrysis (Trichrysis) buyssoni Mocsáry, 1889. 323. Replacement name for Chrysis pellucida du Buysson 1887 nec Brugmoia pellucida Radoszkowski, 1877.

Chrysis pellucida: du Buysson, 1898a: 525 (China: Jehol [= Johol]: “Nord de Pêking”, cat.); du Buysson, 1899: 164 (China, cat.); du Buysson, 1900: 144 (China: Beijing, cat.).

Chrysis (Trichrysis) pellucida: Bischoff, 1913: 46 (China, cat.); Tsuneki 1953b: 25 (North China: Jehol, cat.); Linsenmaier 1959: 169 (China, key, tax.).

Chrysis (Monochrysis) coreana Uchida, 1927: Tsuneki 1948b: 47 (tax., syn.); 51 (résumé);

Trichrysis buyssoni: Kimsey and Bohart 1991: 571 (cat.).
**Distribution.** China (Inner Mongolia, Hebei, Beijing). Middle East to China and Russian Far East (Kimsey and Bohart 1991; Kurzenko and Lelej 2007).

**Remarks.** Chrysis (Trichrysis) buyssonii Mocsáry was a replacement name for Trichrysis pellucida (du Buysson, 1887). However, after 1889, the name Brugmoia pellucida Radoszkowski was considered belonging to the genus Euchroeus Latreille and no longer congeneric. According to the Code (Art. 59), a junior secondary homonym replaced before 1961 is permanently invalid unless the substitute name is not in use and the relevant taxa are no longer considered congeneric, in which case the junior homonym is not to be rejected on grounds of that replacement.

185. *Trichrysis secernenda* (Mocsáry, 1912)
http://species-id.net/wiki/Chrysis_secernenda
Plate 65

*Chrysis (Trichrysis) secernenda* Mocsáry, 1912a: 376. Lectotype ♂ design. by Bohart (in Bohart and French 1986: 342), Uzbekistan: Gouldsha (type series: China: Xinjiang, paralectotypes) (depository: HNHM)*.

*Trichrysis secernenda:* Kimsey and Bohart 1991: 573 (cat.).

**Distribution.** China (Xinjiang).

186. *Trichrysis triacantha* (Mocsáry, 1889)
http://species-id.net/wiki/Chrysis_triacantha

*Chrysis (Trichrysis) triacantha* Mocsáry, 1889: 325. Holotype ♂, Indonesia: Sumatra (325 (descr.), depository: NHMW)*.

*Chrysis (Trichrysis) formosana* Mocsáry, 1912a: 380. Lectotype ♂ design. by Bohart (in Bohart and French 1986: 341), Taiwan: Takao [= Kaohsiung] (HNHM)* (synonymised by Kimsey and Bohart 1991: 574).

*Chrysis (Trichrysis) sauteri* Mocsáry, 1912a: 381. Holotype ♂, Taiwan: Takao [= Kaohsiung] (381 (descr.), depository: HNHM)* (synonymised by Kimsey and Bohart 1991: 574).

*Chrysis (Trichrysis) formosana:* Bischoff 1913: 45 (Taiwan, cat.); Mocsáry 1913b: 614 (Taiwan: Takao [= Kaohsiung], Kankau, tax.), 619 (Taiwan, cat.)). Uchida 1927: 151 (Taiwan, cat.); Uchida 1933: 3 (Taiwan, cat.); Tsuneki 1970b: 10 (tax.), 11 (Taiwan: Chantou, Tsukeng, Penpuchi, Jihjuetan, Chulu, Chichpenchi, Ssuchungchi, Manchou, Fanshanlu, Kentin, Uluampi, descr.), 12 (comp. notes, figs 27–29).

*Chrysis (Trichrysis) sauteri* Mocsáry, 1913b: 614 (Taiwan, cat.); Mocsáry, 1913c: 289 (Taiwan, cat.); Uchida 1927: 151 (Taiwan, cat.); Tsuneki 1970b: 13 (Taiwan, tax.).

*Chrysis (Trichrysis) tonkinensis* Mocsáry, 1914: 25. Holotype ♀ [not ♂], Viet Nam: Tonkin (25 (descr.), depository: HNHM)* (synonymised by Kimsey and Bohart 1991: 574).
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Chrysis (Trichrysis) tonkinensis var. cyanescens Mocsáry, 1914: 26. Holotype ♀, China: Poo Chow [= Fujian] (26 (descr.), depository: BMNH) (synonymised by Kimsey and Bohart 1991: 574).

Chrysis (Trichrysis) bicornata Tsuneki, 1950: 69. Holotype ♀, Hong Kong (69 (descr.), depository: 70 (comp. notes), EIHU) (synonymised by Kimsey and Bohart 1991: 574).

Chrysis (Trichrysis) tonkinensis: Linsenmaier 1959: 169 (China, tax., descr.); Tsuneki 1961: 374 (Hong Kong, tax., descr., figs 19–21).

Trichrysis triacantha: Kimsey and Bohart 1991: 573 (Oriental: widespread, cat.); Terayama et al. 2010: 4 (fig.), 9 (Taiwan, cat.); 12 (tab., biol).

Distribution. China (Fujian, Taiwan, Hong Kong). Widely distributed in the Oriental Region (Kimsey and Bohart 1991).

187. Trichrysis trigona (Mocsáry, 1889)
http://species-id.net/wiki/Chrysis_trigona
Plate 66

Chrysis (Trichrysis) trigona Mocsáry, 1889: 327. Holotype ♀, Celebes: Bonthain (327 (descr.), depository: HNHM)*.

Trichrysis trigona: Kimsey and Bohart 1991: 574 (Hong Kong, cat.).

Distribution. China (Hong Kong). Indonesia, Laos (Kimsey and Bohart 1991).

Subfamily Parnopinae

23. Genus Parnopes Latreille, 1797

188. Parnopes popovi Eversmann, 1857
http://species-id.net/wiki/Parnopes_popovi

Parnopes popovi Eversmann, 1857: 567. Holotype ♀, Siberia (567 (descr.), depository: ISEA-PAS)*.

Parnopes sinensis Smith, 1874b: 454. Holotype ♂, China: Shanghai (454 (descr.), depository: BMNH) (synonymised by Mocsáry 1889).

Parnopes popovii (!): Mocsáry 1889: 614 (China: Shanghai, Tschifu, Ta-tschian-sy, descr., distr.); Dalla Torre 1892: 112 (China, cat.).

Parnopes popovi: du Buysson (in André) 1896: 689 (China septentrionalis [Shandong]: Tshi-fu, cat.); Tsuneki 1953a: 58 (Manchuria [Heilongjiang]: Harbin, Yayasaka, cat., distr.); Tsuneki 1953b: 24 (North China, Manchuria, tax.); Kimsey 1987a: 86 (key), 89 (cat.); Kimsey and Bohart 1991; Kurzenko and Lelej 2007: 1005 (China, cat.).
Material examined. 1 ex., Imian Station, along the East Chinese railway, 18.VII.1914 (ZIN).

Distribution. China (Heilongjiang, Shanghai, Shandong). Siberia and Korea (Tsuneki 1953b).

Plates

Plate 1. Cleptes mandsuricus Móczár, holotype. A Habitus, dorsal view B head, frontal view C head and anterior part of mesosoma, dorsal view D mesopleuron, lateral view E mesosoma, dorsal view F metasoma, dorsal view.
Plate 2. *Cleptes sjostedti* Hammer, holotype. A Habitus, dorso-lateral view B head, frontal view C head and anterior part of mesosoma, dorsal view D mesopleuron, lateral view E mesonotum, metanotum and propodeum, dorsal view F metasoma, dorsal view.
Plate 3. *Elampus albipennis* (Mocsáry), lectotype. **A** Habitus, lateral view **B** habitus, dorsal view **C** head, frontal view **D** mesosoma, posterior view.

Plate 4. *Elampus coerules* Dahlbom, syntype, habitus, dorsal view.
Plate 5. *Elampus schmidtianus* (Semenov-Tian-Shanskij), holotype. A Habitus, dorsal view B head, frontal view C habitus, lateral view D third metasomal tergite, posterior view.

Plate 6. *Hedychridium coriaceum* (Dahlbom), lectotype, head and mesosoma, dorsal view.
Plate 7. *Hedychridium cupreum* (Dahlbom), lectotype. **A** Habitus, dorsal view **B** metanotum, propodeum and metasoma, dorsal view.

Plate 8. *Hedychridium flos* (Semenov-Tian-Shanski), holotype. **A** Habitus, dorsal view **B** head, frontal view **C** habitus, lateral view **D** metasoma, dorsal view.
Plate 9. **Hedychridium roborovskii** Semenov-Tian-Shanski, holotype. A Habitus, lateral view B head, frontal view C head and mesosoma, lateral view D mesosoma, dorsal view.

Plate 10. **Hedychrum formosanum** Mocsáry, holotype. A Habitus, lateral view B habitus, dorsal view C head and mesosoma, dorsal view D second and third metasomal tergites, dorso-lateral view.
Plate 11. *Hedychrum marianum* Mocsáry, lectotype. **A** Head and mesosoma, dorsal view **B** head, frontal view **C** head and mesosoma, lateral view **D** second and third metasomal tergites, dorso-lateral view.
Plate 12. *Hedychrum gracile* Semenov-Tian-Shanski, holotype. **A** Head and mesosoma, lateral view **B** propodeum and metasoma, lateral view **C** head and mesosoma, dorsal view **D** metanotum, propodeum and metasoma, dorsal view **E** head, frontal view **F** mesosoma, margin of the last visible sternite, ventral view.

Plate 13. *Hedychrum longicolle* Abeille, lectotype, habitus, dorsal view.
Plate 14. *Hedychrum niemelai* Linsenmaier, habitus, dorsal view. **A** Holotype female **B, C** paratypes, males.

Plate 15. *Hedychrum simile* Mocsáry, lectotype. **A** Habitus, dorsal view **B** head, frontal view **C** mesosoma, dorsal view **D** third metasomal tergite, dorsal view.
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Plate 16. Hedychrum sinicum Semenov-Tian-Shanskiy, holotype. A Habitus, lateral view B head, frontal view C mesosoma, dorsal view D second and third metasomal tergite, dorsal view.

Plate 17. Omalus aeneus (Fabricius), holotype. A Habitus, dorsal view B second and third metasomal tergites, dorsal view.
Plate 18. *Ellampus sauteri* Mocsáry, holotype. **A** Habitus, lateral view **B** head, frontal view **C** mesosoma, dorsal view **D** metasoma, dorsal view.

Plate 19. *Omalus berezovskii* (Semenov-Tian-Shanski), holotype. **A** Habitus, lateral view **B** head, frontal view **C** head and mesosoma, dorsal view **D** third metasomal tergite, posterior view.
Plate 20. *Omalus imbecillus* (Mocsáry), lectotype. **A** Habitus, lateral view **B** second and third metasomal tergites, dorso-lateral view.

Plate 21. *Omalus potanini* (Semenov-Tian-Shanski), paralectotype (?). **A** Habitus, lateral view **B** head, frontal view **C** head and mesosoma, dorsal view **D** third metasomal tergite, posterior view.
Plate 22. *Philoctetes heros* (Semenow), holotype. **A** Head, mesosoma and anterior part of metasoma, lateral view **B** head, frontal view **C** head and mesosoma, dorsal view **D** third metasomal tergite, posterior view.

Plate 23. *Philoctetes horvathi* (Mocsáry), lectotype. **A** Habitus, lateral view **B** mesosoma, dorsal view.

Plate 24. *Philoctetes mordvilkoii* (Semenov-Tian-Shanskij), holotype. **A** Habitus, lateral view **B** third metasomal tergite, dorsal view.
Plate 25. Philoctetes praeteritorum (Semenov-Tian-Shanskij), holotype. A Habitus, lateral view B mesopleuron and propodeum, dorso-lateral view.

Plate 26. Pseudomalus triangulifer (Abeille), lectotype. A Habitus, lateral view B head, frontal view C head and mesosoma, lateral view D second and third metasomal tergites, dorso-lateral view.
Plate 27. *Pseudomalus tshingiz* (Semenov-Tian-Shanskiy), holotype. **A** Habitus, lateral view **B** head, frontal view **C** metasoma, dorsal view **D** third metasomal tergite, posterior view.

Plate 28. *Chrysis aegle* Semenov-Tian-Shanskiy, holotype. **A** Habitus, lateral view **B** head, frontal view **C** habitus, dorsal view **D** metasoma, dorsal view.
Plate 29. *Chrysis buda* Bohart, 1991, holotype. A Head and mesosoma, lateral view B head, frontal view C head and mesosoma, dorsal view D second and third metasomal tergites, dorsal view.

Plate 30. *Chrysis buddhae* Mocsáry, lectotype. A Habitus, lateral view B head, frontal view C head and mesosoma, lateral view D second and third metasomal tergites, dorsal view.
Plate 31. Chrysis carnifex Mocsáry, holotype. A Habitus, lateral view B head, frontal view C mesosoma, dorsal view D second and third metasomal tergites, dorsal view.

Plate 32. Chrysis cavaleriei (du Buysson), holotype. A Habitus, dorsal view B habitus, lateral view (photos courtesy of Pekka Malinen).
Plate 33. *Chrysidea insulicola* Mocsáry, holotype. A Habitus, dorsal view B head, frontal view C habitus, lateral view D second and third metasomal tergites, dorso-lateral view.

Plate 34. *Chrysis chinensis* Mocsáry, holotype. A Habitus, lateral view B head, frontal view C mesosoma, dorsal view D first and second metasomal tergites, dorsal view.
Plate 35. *Chrysis chrysochlora* Mocsáry, lectotype (given as holotype in the picture). A Habitus, lateral view B head, frontal view C head and mesosoma, dorsal view D second and third metasomal tergites, dorsal view.

Plate 36. *Chrysis consobrina* Mocsáry, lectotype. A Habitus, lateral view B head, frontal view C mesosoma, dorsal view D second and third metasomal tergites, dorsal view.
**Plate 37.** *Chrysis durga* Bingham, lectotype. **A** Head and mesosoma, lateral view **B** head, frontal view **C** mesosoma, dorsal view **D** second and third metasomal tergites, dorsal view.
Plate 38. *Chrysis gracilenta* Mocsáry, holotype. A Habitus, lateral view B habitus, dorsal view C head, frontal view D second and third metasomal tergites, dorsal view.
Plate 39. *Chrysis grumorum* Semenow, holotype. **A** Head and mesosoma, dorsal view **B** metasoma, dorsal view **C** head and mesosoma, lateral view **D** metasoma lateral view **E** third metasomal tergite, dorsal view **F** head, frontal view.
Plate 40. *Chrysis hoozana* Mocsáry, holotype. A Habitus, lateral view B head, frontal view C head and mesosoma, lateral view D second and third metasomal tergites, dorsal view.

Plate 41. *Chrysis hyacinthus* Semenov-Tian-Shanskiy, holotype. A Head and mesosoma, lateral view B head, frontal view C mesosoma, dorsal view D second and third metasomal tergites, dorsal view.
Plate 42. *Chrysis illecebrosa* Semenov-Tian-Shanski, holotype. A Head and mesosoma, dorsal view B head, frontal view C metasoma, lateral view D second and third metasomal tergites, dorsal view.

Plate 43. *Chrysis schenklingi* Mocsáry, lectotype. A Habitus, lateral view B head, frontal view C mesosoma, dorsal view D second and third metasomal tergites, dorsal view.
Plate 44. *Chrysis kokuevi* Semenov-Tian-Shanskij, holotype. A Head and mesosoma, lateral view B head, frontal view C head and metasoma, dorsal view D third metasomal tergite, dorsal view.

Plate 45. *Chrysis kozlovi* Semenov-Tian-Shanskij, holotype. A Head and mesosoma, dorsal view B head, frontal view C third metasomal tergite, dorsal view D second and third metasomal tergites, dorso-lateral view.
Plate 46. *Chrysis kukunorensis* Semenov-Tian-Shanskij, holotype. A Habit, lateral view B head, frontal view C head and metasoma, dorsal view D second and third metasomal tergites, dorsal view.

Plate 47. *Chrysis lama* Mocsáry, lectotype. A Head and mesosoma, lateral view B head, frontal view C mesosoma and metasoma lateral view D metasoma, dorsal view.
Plate 48. *Chrysis mane* Semenov-Tian-Shanskij, lectotype. **A** Head and mesosoma, dorsal view **B** head, frontal view **C** metasoma lateral view **D** third metasomal tergite, dorsal view.

Plate 49. *Chrysis matutina* Semenov-Tian-Shanskij, holotype. **A** Head and mesosoma, lateral view **B** head, frontal view **C** Head and mesosoma, dorsal view **D** second and third metasomal tergites, dorsal view.
Plate 50. *Chrysis mongoliana* Bohart, 1991, holotype. **A** Head, mesosoma and anterior part of metasoma, lateral view **B** head, frontal view **C** head, mesosoma and anterior part of metasoma, dorsal view **D** second and third metasomal tergites, dorsal view.

Plate 51. *Chrysis assamensis* Mocsáry, holotype. **A** Habitus, lateral view **B** head, frontal view **C** mesosoma, dorsal view **D** second and third metasomal tergites, dorsal view.
Plate 52. *Chrysis pleskei* Semenov-Tian-Shanskij, lectotype. A Head and mesosoma, lateral view B head, frontal view C Head and mesosoma, dorsal view D second and third metasomal tergites, dorsal view.

Plate 53. *Chrysis schalfeewi* Semenow, holotype. A Habitus, lateral view B head, frontal view C third metasomal tergite, dorsal view.
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**Plate 54.** *Chrysis strauchi* Semenow, holotype. **A** Head and mesosoma, dorsal view **B** head, frontal view **C** metasoma, dorsal view **D** second and third metasomal tergites, dorsal view.

**Plate 55.** *Chrysis taihorina* Mocsáry, holotype. **A** Habitus, lateral view **B** head, frontal view **C** mesosoma, dorsal view **D** third metasomal tergite, dorsal view.
Plate 56. *Chrysis talitha* Mocsáry, holotype. **A** Habitus, lateral view **B** head, frontal view **C** head and mesosoma, lateral view **D** second and third metasomal tergites, dorsal view.

Plate 57. *Chrysis tibetana* Mocsáry, paralectotype. **A** Head and mesosoma, lateral view **B** head, frontal view **C** metasoma, lateral view **D** third metasomal tergite, dorsal view.
Plate 58. *Chrysis vicaria* Mocsáry, lectotype, habitus, dorsal view.

Plate 59. *Euchroeus mongolicus* Tsuneki, paratypes, habitus, dorsal view. A, B Males, dorsal view C, D females, dorsal view.
Plate 60. *Euchroeus orientis* (Semenov-Tian-Shanskij), lectotype. **A** Head and mesosoma, lateral view. **B** Head, frontal view. **C** Head and mesosoma, dorsal view. **D** Metasoma, dorsal view.

Plate 61. *Euchroeus orientis* (Semenov-Tian-Shanskij), paralectotype, female. **A** Head and mesosoma, lateral view. **B** Head, frontal view. **C** Head and mesosoma, dorsal view. **D** First and second metasomal tergites, dorsal view.
Plate 62. *Chrysis lachesis* Mocsáry, holotype. **A** Habitus, lateral view **B** head, frontal view **C** mesosoma, dorsal view **D** third metasomal tergite, dorsal view.

Plate 63. *Praestochrysis ribbei* (Mocsáry, 1889), lectotype. **A** Head and mesosoma, dorsal view **B** metasoma, lateral view **C** second and third metasomal tergites, dorsal view **D** head, frontal view.
Plate 64. *Trichrysis lusca* (Fabricius), holotype. A Habitus, lateral view B second and third metasomal tergites, dorsal view.

Plate 65. *Trichrysis secernenda* (Mocsáry), lectotype. A Habitus, dorsal view B habitus, lateral view.
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II. Taxa to be excluded from China

1. Chrysis coerulans Fabricius, 1804

Remarks. Radoszkovsky (1866) identified two specimens as Chrysis coerulans Fabricius, but it is a misidentification, as C. coerulans is a Nearctic species (currently Chrysis nitidula Fabricius, 1775). Radoszkovski was not sure about his identification: “J’ai placé cette espèce sous le nom de coerulans; quoique plus rapprochée par la couleur de cette dernière espèce, elle ressemble en même temps par sa forme à la chrysis nitidula”. Dalla Torre (1892, sub caerulans Fabr.) reported the same datum for China.

2. Chrysis syriaca Guérin-Méneville, 1842

Remarks. Bischoff (1913: 51) erroneusly listed C. nomima du Buysson (currently C. syriaca) as being from China, rather than from Algeria and Egypt.
3. *Holopyga gloriosa viridis* Guérin-Méneville, 1842

**Remarks.** *Holopyga viridis* is present from North Africa to Palestine (Linsenmaier 1959, 1999) with records also found further west towards Oman (Linsenmaier 1994). Its appearance in China is dubious and the specimens identified by Tsuneki (1947, 1948a) must be double-checked.

### III. Doubtful taxa mentioned in China

1. *Cleptes nitidulus* (Fabricius, 1793)

**Remarks.** The report of *C. nitidulus* in the east Palaearctic (Uchida 1926) was considered debatable by Ha et al. (2011). Therefore, *C. nitidulus* is temporarily excluded from the checklist of the Chinese *Cleptes*.

2. *Cleptes semiauratus* (Linnaeus, 1758)

**Remarks.** As in the previous case, Sheng et al. (1998) reported *C. semiauratus* as a new record to China. After examining the specimens, Wei et al. (2013) discovered that the specimen evidently belonged to an undescribed species (*C. shengi* Wei, Rosa and Xu, 2013). However *C. semiauratus* may be present in the most western part of the country.

3. *Hedychrum coerulescens* Shuckard, 1837

**Remarks.** Tsuneki (1946, 1947, 1948a) listed *Hedychrum coerulescens* Schuckard, 1837 *nec* Lepeletier, 1806, *nec* Chevrier, 1862. The occurrence of this species in China is surely in error. Tsuneki based the identification on a very short diagnosis of two specimens housed in BMNH without locality labels. At present these species cannot be recognized and the description is not adequate to identify the species. Furthermore, the name *Hedychrum coerulescens* Schuckard is a primary junior homonym of *Hedychrum coerulescens* Lepeletier, 1806 (currently *Pseudomalus violaceus* (Scopoli, 1763)).

4. *Holopyga amoenula amoenula* Dahlbom, 1854

**Remarks.** The presence of *Holopyga amoenula amoenula* Dahlbom, 1854 (sub *H. gloriosa amoenula* in du Buysson (1911) and Tsuneki (1948a)) is restricted to the island of Rhodes. The Chinese records identified by du Buysson and Tsuneki must be double-checked so as to confirm their identity.
5. *Loboscelidia defecta* Kieffer, 1916

**Remarks.** It was listed from south China by Kimsey and Bohart (1991), but was recently excluded from the Chinese fauna by Kimsey (2012).

6. *Pseudomalus bergi* (Semenov-Tian-Shanski, 1932)

**Remarks.** Kimsey and Bohart (1991) mistakenly listed *bergi* as having originally described from China, but the correct locality is “Prov. Heptapotamica (Semiretshj’e); vallis fl. Kora in montibus Alatau Dzungarico”. “Dzungarian Alatau” is a mountain range found along the boundary between Dzungaria (China) and Zhetsys (Kazakhstan), however the Kora river is located within the former Soviet country. Regardless, the species may be present in China too.

7. *Pseudomalus pusillus* (Fabricius, 1804)

**Remarks.** Listed in China by Berland and Bernard (1938: 35, Shanxi: Nan-chan) and by Balthasar (1954) without any precise locality.

**Conclusion**

The current number of known Chinese chrysidid species and subspecies is 188 in total. We excluded some published yet doubtful data due to uncertain identifications. Overall, the Chinese chrysidid fauna is still poorly known, comparing with the fauna of the adjacent countries both in the Palearctic Region (e.g. Korea, Mongolia, Far East Russia, Tajikistan) and the Oriental Region (e.g. Burma, Vietnam). We expect a higher number of taxa for China as results of its geographical position, climatic condition and topographical structure.

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