

Two newly recorded genera and eight species of Cerambycidae from China (Coleoptera)

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Abstract: Two genera and eight species of the family Cerambycidae are newly recorded from China: *Cristaphanes* Vives, 2009, *Trichacanthocinus* Breuning, 1963; *Cristaphanes tysoni* Vives, 2017, *Dymasius angustatus* (Pic, 1925) comb. nov., *Chlorophorus capillatus* Holzschuh, 2006, *Rhaphuma subvarimaculata* Gressitt & Rondon, 1970, *Xylotrechus chatterjeei* (Gardner, 1940), *Cereopsius aureomaculatus* Breuning, 1968, *Trichacanthocinus rondoni* Breuning, 1963 and *Egesina partéalboantennata* Breuning, 1965.

Key words: Chrysomeloidea; Cerambycinae; Lamiinae; taxonomy; distribution

中国天牛科两新纪录属和八新纪录种（鞘翅目）

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摘要: 记录了中国天牛科 2 新纪录属和 8 新纪录种: 显毛天牛属 *Cristaphanes* Vives, 2009 和毛长角天牛属 *Trichacanthocinus* Breuning, 1963; 泰森显毛天牛 *Cristaphanes tysoni* Vives, 2017、狭拟裂眼天牛 *Dymasius angustatus* (Pic, 1925) comb. nov.、多毛绿虎天牛 *Chlorophorus capillatus* Holzschuh, 2006、门字纹艳虎天牛 *Rhaphuma subvarimaculata* Gressitt & Rondon, 1970、查氏脊虎天牛 *Xylotrechus chatterjeei* (Gardner, 1940)、金斑类蜡天牛 *Cereopsius aureomaculatus* Breuning, 1968、毛长角天牛 *Trichacanthocinus rondoni* Breuning, 1963 和斜带艾格天牛 *Egesina partéalboantennata* Breuning, 1965。

关键词: 叶甲总科; 天牛亚科; 沟胫天牛亚科; 分类; 分布

Introduction

The family Cerambycidae is one of the most species-rich families of Insecta, and includes 8 subfamilies with approximately 35,000 species (Ślipiński & Escalona 2013). Over 3,000 species have been recorded from China. During the recent work on identification of the specimens collected from Yunnan and Hainan Provinces deposited in Southwest University (SWU), some interesting species were found. Two genera and eight species were found to be new to the Chinese fauna and are herein reported for the first time. We compared the specimens with the type pictures on the website “A Photographic Catalog of the Cerambycidae

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of the World” (Bezark 2013).

Taxonomy

Subfamily Cerambycinae

Tribe Callidiopini

Genus *Cristaphanes* Vives, 2009, new record to China

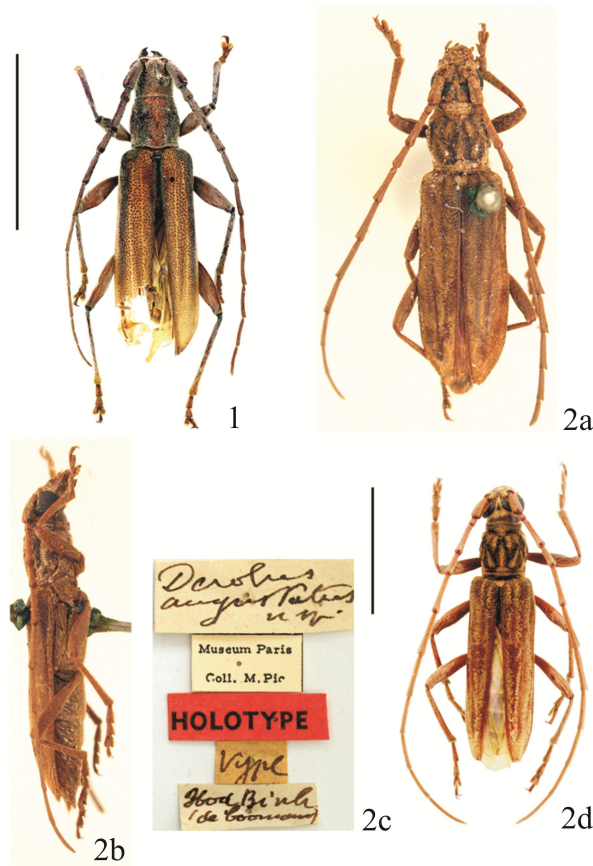
Lasiophanes Aurivillius, 1916 (nec *Lasiophanes* Emery, 1895; Hymenoptera, Formicidae). Type species: *Lasiophanes cristulatus* Aurivillius, 1916.

Cristaphanes Vives, 2009: 3. [New name]

Distribution. China; Laos; Malaysia; Philippines; Thailand; Vietnam.

Remarks. The genus *Lasiophanes* was established by Aurivillius which was preoccupied by *Lasiophanes* Emery, 1895 (Hymenoptera). Vives (2009) proposed the new name *Cristaphanes*. The genus includes 10 species worldwide, mainly distributed in Southeast Asia, and is recorded from China for the first time.

***Cristaphanes tysoni* Vives, 2017 (Fig. 1), new record to China**



Figures 1, 2. *Cristaphanes tysoni* Vives, 2017. Male, from Yunnan.; 2. *Dymasius angustatus* (Pic, 1925). a–c. Holotype of *Derolus angustatus* Pic, 1925, from Vietnam (Photos taken by Gérard Chemin); a. Dorsal view; b. Lateral view; c. Label; d. Male, from Hainan. Scale bars = 1 cm (Fig. 1), 5 mm (Fig. 2d).

Cristaphanes tysoni Vives, 2017: 4, 6, figs. 3–6. Type locality: Vietnam.

Specimen examined. 1♂, **China**, Yunnan Province, Pu'er, 03-V-2013, leg. TIAN Lichao & HUANG Guiqiang (SWU).

Distribution. China (Yunnan); Vietnam.

Tribe Cerambycini

***Dymasius angustatus* (Pic, 1925) comb. nov.** (Figs. 2a–d), new record to China

Derolus angustatus Pic, 1925: 16. Type locality: Vietnam.

Specimen examined. 1♂, **China**, Hainan Province, Jianfengling, Mingfenggu, 07–10-IV-2016, leg. Xiaoyan YAN & Jianyue QIU (SWU).

Distribution. China (Hainan); Vietnam.

Remarks. The type locality of *Derolus angustatus* Pic, 1925 is “Tonkin” in the original description (Pic 1925) while it is “Hoa Binh” on the holotype label. This might be a mistake in the publication. This specimen was examined carefully and it should belong to the genus *Dymasius*, and herein this new combination is proposed.

Tribe Clytini

***Chlorophorus capillatus* Holzschuh, 2006** (Fig. 3), new record to China

Chlorophorus capillatus Holzschuh, 2006: 288, fig. 9. Type locality: Laos.

Specimens examined. 3♀, **China**, Yunnan Province, Xishuangbanna, Jinghong City, Dadugang, V-2013, leg. Lichao TIAN, Guiqiang HUANG & Xiangxiang ZHANG (SWU).

Distribution. China (Yunnan); Laos.

***Rhaphuma subvarimaculata* Gressitt & Rondon, 1970** (Fig. 4), new record to China

Rhaphuma subvarimaculata Gressitt & Rondon, 1970: 236, 245. Type locality: Laos.

Specimens examined. 3♂, **China**, Yunnan Province, Xishuangbanna, Menglun County, 26-IV-2016, leg. Jianyue QIU (SWU).

Distribution. China (Yunnan); Laos.

***Xylotrechus chatterjeei* (Gardner, 1940)** (Fig. 5), new record to China

Perissus chatterjeei Gardner, 1940: 219. Type locality: Indian.

Xylotrechus zanonianus Gressitt & Rondon, 1970: 197, 205, fig. 34a. Type locality: Laos.

Xylotrechus chatterjeei Holzschuh, 2016: 104.

Specimen examined. 1♂, **China**, Hainan Province, Jianfengling, IV-2014, leg. Siyao HE & Jianyue QIU (SWU).

Distribution. China (Hainan); India (Bengal); Laos; Thailand.

Remarks. *X. zanonianus* was synonymized with *P. chatterjeei* and a new combination *Xylotrechus chatterjeei* was proposed by Holzschuh (2016).

Subfamily Lamiinae

Tribe Acanthocinini

Genus *Trichacanthocinus* Breuning, 1963, new record to China

Trichacanthocinus Breuning, 1963: 24. Type species: *Trichacanthocinus rondoni* Breuning, 1963.

Distribution. China; Laos.

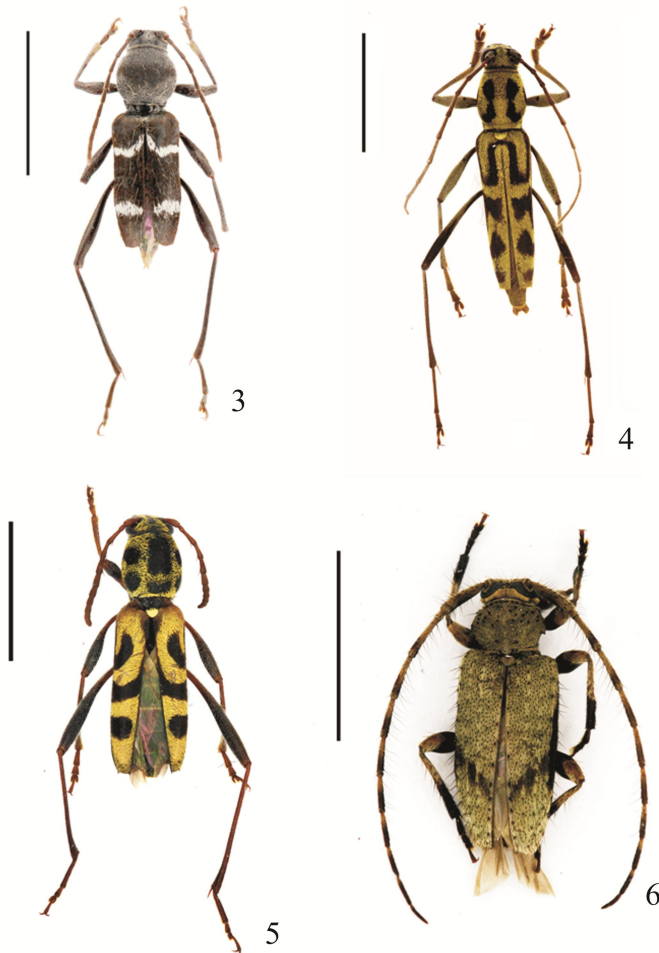
Remarks. The genus *Trichacanthocinus* was established by Breuning in 1963 and includes only one species worldwide (Tavakilian & Chevillotte 2017).

***Trichacanthocinus rondoni* Breuning, 1963** (Fig. 6), new record to China

Trichacanthocinus rondoni Breuning, 1963: 24. Type locality: Laos.

Specimen examined. 1♂, **China**, Yunnan Province, Mengla County, 10–11-V-2015, leg. Chenglong REN & Jianyue QIU (SWU).

Distribution. China (Yunnan); Laos.



Figures 3–6. 3. *Chlorophorus capillatus* Holzschuh, 2006, female, from Yunnan; 4. *Rhaphuma subvarimaculata* Gressitt & Rondon, 1970, male, from Yunnan; 5. *Xylotrechus chatterjeei* (Gardner, 1940), male, from Hainan. 6. *Trichacanthocinus rondoni* Breuning, 1963, male, from Yunnan. Scale bars = 5 mm.

Tribe Monochamini

***Cereopsius aureomaculatus* Breuning, 1968** (Fig. 7), new record to China

Cereopsius aureomaculatus Breuning, 1968: 24. Type locality: Laos.

Specimen examined. 1♂, **China**, Yunnan Province, Xishuangbanna, 23-VI-2013, leg. Guiqiang HUANG (SWU).

Distribution. China (Yunnan); Laos.

Remarks. The genus *Cereopsius* consists of 34 species (Tavakilian & Chevillotte 2017) and two species are recorded from China, *C. praetorius* (Erichson, 1834) and *C. ziczac*

(Matsushita, 1940) (Löbl & Smetana 2010). *C. aureomaculatus* is reported from China for the first time.

Tribe Pteropliini

***Egesina partéalboantennata* Breuning, 1965** (Fig. 8), new record to China

Egesina partéalboantennata Breuning, 1965: 30, fig. 30. Type locality: Laos.

Specimen examined. 1♂, **China**, Yunnan Province, Xishuangbanna, Jinghong City, Dadugang, 02-IV-2014, leg. Jianyue QIU (SWU).

Distribution. China (Yunnan); Laos.

Remarks. The genus *Egesina* consists of 76 species (Tavakilian & Chevillotte 2017) and 20 species are recorded from China (Löbl & Smetana 2010; Holzschuh & Lin, 2013). This is the first time to report *E. partéalboantennata* Breuning, 1965 from China.



Figures 7, 8. 7. *Cereopsius aureomaculatus* Breuning, 1968, male, from Yunnan. 8. *Egesina partéalboantennata* Breuning, 1965, male, from Yunnan. Scale bars = 5 mm.

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References

- Aurivillius C. 1916. Neue oder wenig bekannte Coleoptera Longicornia. 16. *Arkiv för Zoologi*, 10(19): 335–360.
- Bezark LG. 2013. *A Photographic Catalog of the Cerambycidae of the World*. Available from: <https://apps2.cdfa.ca.gov/publicApps/plant/bycidDB/wdefault.asp?w=o> (Accessed 2 March 2018)
- Breuning S. 1963. Contribution à la connaissance des Lamiens du Laos (Coll. Céramb.) Septième Partie.

- Bulletin de la Société Royale des Sciences Naturelles du Laos*, 8: 17–25.
- Breuning S. 1965. Contribution à la connaissance des Lamiens du Laos (Coll. Céramb.) 14ème partie. *Bulletin de la Société Royale des Sciences Naturelles du Laos*, 15: 21–46.
- Breuning S. 1968. Contribution à la connaissance des Lamiens du Laos (Coll. Céramb.) 15ème partie et fin. *Bulletin de la Société Royale des Sciences Naturelles du Laos*, 16: 3–44.
- Gardner JCM. 1940. New Indian Cerambycidae (Coleoptera). *The Indian Forest Records (New Series), Entomology*, 6(6): 213–225.
- Gressitt JL & Rondon JA. 1970. Cerambycid-beetles of Laos (Disteniidae, Prioninae, Philinae, Aseminae, Lepturinae, Cerambycinae). *Pacific Insects Monograph*, 24: ii–iii + 1–314.
- Holzschuh C. 2006. Neue Arten der Triben Molorchini und Clytini aus China und Laos (Coleoptera, Cerambycidae). *Entomologica Basiliensia et Collectionis Frey*, 28: 277–302.
- Holzschuh C. 2016. Neue Clytini (Coleoptera: Cerambycidae) aus Laos und zur Synonymie einiger Arten. *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen*, 68: 103–127.
- Holzschuh C & Lin YL. Beitrag zur Bockkäferfauna von Taiwan, mit Beschreibung neuer Arten (Coleoptera: Cerambycidae). In: Lin MY & Chen CC (Eds.), *In memory of Mr. Wenhsin Lin*. Formosa Ecological Company, Taiwan, pp. 147–158.
- Löbl I & Smetana A. 2010. *Catalogue of Palaearctic Coleoptera. Volume 6 Chrysomeloidea*. Apollo Books, Stenstrup, 373 pp.
- Pic M. 1925. Nouveautés diverses. *Mélanges Exotico-Entomologiques*, 44: 1–32.
- Ślipiński SA & Escalona E. 2013. *Australian Longhorn Beetles (Coleoptera: Cerambycidae) Volume 1 Introduction and Subfamily Lamiinae*. ABRS, Canberra & CSIRO Publishing, Melbourne, 484 pp.
- Tavakilian G & Chevillotte H. 2017. *Titan database about Longhorns or Timber-Beetles (Cerambycidae)*. Available from: http://titan.gbif.fr/accueil_uk.html (Accessed 2 March 2018)
- Vives E. 2009. New or interesting Cerambycidae from the Philippines (Part III) (Coleoptera, Cerambycidae). *Les Cahiers Magellanes*, 105: 1–20.
- Vives E. 2017. New or interesting Cerambycidae from Vietnam, (Coleoptera, Cerambycinae). (Pars V). *Lambillionea CXVII*, 1: 4–10.