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A remarkable new *Penia* species (Coleoptera: Elateridae: Dimini) from Guizhou, China

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Mots-clés :

Coleoptera; Elateroidea; Dendrometrinae; *Penia*; click-beetle; morphology; taxonomy; new species; Guizhou; China.

Abstract. – *Penia jiangi* **sp**. **nov**. is described and illustrated from South Guizhou, China. Habitus and diagnostic characters of the new species are illustrated.

Qiu L., 2021. – A remarkable new *Penia* species (Coleoptera: Elateridae: Dimini) from Guizhou, China. *Faunitaxys*, 9(37) : 1 – 4.

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Introduction

Genus *Penia* Laporte, 1838 (Elateridae: Dendrometrinae) is the most species-rich genus (109 species) in the tribe Dimini (Kundrata et al. 2018; Kundrata and Németh 2019). This genus is mainly distributed from Himalaya region to East and South East Asia. Currently, 27 species are recorded from China, and 24 of which were described by R. Schimmel (Schimmel 1993; 1996a, b; 1998; 1999; 2001; 2003; 2006a, b; 2015a, b). Most species of *Penia* are not well studied. The original descriptions of these species are brief, and most of the illustrations are insufficient for identification. Although Kundrata et al. (2018) made an essential catalogue for *Penia*, more comprehensive works are needed to be done in this genus.

After years' accumulation of Dimini specimens, I have collected most of the Chinese *Penia* species. Comprehensive revisional works are preparing. Considering they will be time-consuming works, thus, I decided to separately publish some remarkable new species to reduce the workload. In this paper, an easily distinguished *Penia* species is described from Guizhou, China.

Material and methods

The specimen was softened by hot water, then the genital segments were cut down and dissected after treatment in 80°C 10% KOH for 10 minutes. Habitus and diagnostic characters were photographed using a Canon® EOS RP digital camera + Mount Adapter EF-EOS R plus a Laowa® 25 mm F2.8 2.5-5× Ultra Macro Lens and a Laowa 100 mm F2.8 CA-Dreamer Macro 2× lens (all for Canon EF). All figures were modified in Adobe Photoshop® CC 2019. Body length was measured from the anterior margin of head to the apex of elytra, pronotal length was measured at mid-line, pronotal width was measured at hind angles, and width of body was measured at the widest place (on elytra). The type specimens of the new species are stored in the Invertebrate Collection of Mianyang Normal University, Mianyang, Sichuan, China (MYNU). The collecting data is quoted verbatim (in Chinese) in quotation marks. English translation of the data, as well as additional information, is given in square brackets.

Systematics

Family **Elateridae**

Subfamily **Dendrometrinae**

Genus ***Penia*** Laporte, 1838

***Penia jiangi* sp. nov.**

(Fig. 1-4)

ZooBank : http://zoobank.org/826E231F-DCA0-4320-8897-648AF09694CE

Holotype, ♂, "2017.IV.27 贵州荔波县茂兰 必左景区 478-507m 姜日新" [China: Guizhou Province, Libo County, Maolan N.R., Bizuo Scenic Spot, 25°17′16″N, 108°04′18″E, 478-507 m, 27.IV.2017, Ri-Xin Jiang leg.] (MYNU).

Paratypes

- 1 ♂, "2019.IV.13 贵州荔波县茂兰 必左景区 487 m 李泊言" [China: Guizhou Province, Libo County, Maolan N.R., Bizuo, 487 m, 13.IV.2019, Bo-Yan Li leg.]" (MYNU);
- 1 ♀, same data as holotype (MYNU).

Diagnosis. – This species is easily distinguished from other *Penia* species by the reddish head, pronotum and scutellar shield, as well as the four large whitish spots on elytra.

Description (based on male holotype)

Dimensions (mm).

– Body length 9.1; width 3.4;
– Antenna length 7.8;
– Pronotum length 1.4, width 2.3;
– Elytron length 7.0, width 1.7.

Shape and coloration. – Tricolor and median-sized species with slender antennae and legs (Fig. 1A-B). Body elongate, flat, surface covered with erect, setaceous, and moderate long pubescence. Head yellowish red (including labrum and mandibles), apex and outline of mandibles blackish, maxillary palpi brown, antennae blackish brown. Pronotum, prothorax, and scutellar shield yellowish red, margins of pronotum and scutellar shield blackish. Prerothorax dully brown, mesoventrite yellowish. Leg blackish brown, coxae, trochanters and tarsi palely yellowish brown. Elytra blackish brown, striae of basal half slightly reddish brown, each elytron with two large whitish spots.

Reviewer : Ji-Shen Wang (*College of Agriculture and Biological Sciences, Dali University, China*).

Abdomen dark brown, with lateral portions slightly brownish. Pubescence yellowish brown to dark brown.

Head. – Head including eyes 0.6 times as wide as pronotum. Head surface sparsely with shallow punctures; punctures small, intervals between punctures mostly equal 1–3 puncture diameter. Eyes large, hemispheric. Edge of frons smooth apically, not carinated, not overhanging the base of labrum; surface above antennal insertions elevated and forming carinae. Maxillary palpus with palpomere III greatly longer than wide. Antenna very long, almost reaching the apical portion of elytron, consists of 11 antennomeres, length ratio of antennomeres II–XI = 1.0 : 1.9 : 3.3 : 3.8 : 3.8 : 3.8 : 3.8 : 3.8 : 3.8 : 4.6; scape robust, pedicel the shortest; antennomeres from III on almost elongate column-shaped, antennomere III distinctly longer than pedicel; antennomeres V–X similar in length, slightly longer than antennomere IV; ultimate antennomere the longest, narrowed apically, apex blunt.

Pronotum. – Very narrow when compared with its congeners, shape somewhat quadrated, widest at hind angles. Wider than long when length measured between mid-line and width between hind angles. In lateral view, pronotum only slightly arched medially. Sides slightly convex; posterior angles long, straight, not curved, divergent as ca. 45-degree angle, apices truncated. Disc sparsely punctate; punctures shallow, intervals between punctures on average subequal to two to five diameters of one puncture; interstices smooth.

Hypomeron and prosternum. – Hypomeron with much more densely punctate than pronotum, intervals between punctures on average subequal to one to two diameters of one puncture. Prosternal sutures excavated anteriorly, sinuate at basal half. Prosternum with punctation slightly sparser than on hypomeron, intervals between punctures on average subequal to two to three diameters of one puncture. Prosternal process small, arched dorsad, curved ventrad, apex blunt.

Scutellar shield. – Typically shield-shaped.

Pterothorax. – Mesoventrite with short medial prostrusion of frontal margin, apically only slightly emarginate medially; procoxal rests distinct; sides of mesoventral cavity not elevated above mesocoxae, hind margin with an elongate extension between mesocoxae. Mesanepisternum with distinct large lateral extensions of procoxal rests. Metacoxal plate narrowly elongate.

Elytra. – Elongate, together about 2.1 times as long as wide, widest at ca. 2/3 of their length from base. Elytral apices meeting together. Striae of the elytra formed by lines of large and deep punctures; intervals between punctures on average subequal to two to three diameters of one puncture. interstriae smooth, with four to six small punctures between the nearest four punctures on the striae. Two large, round, whitish spots situated near the middle of elytra, while the other two large, semicircle, whitish spots situated apically.

Abdomen. – Densely pubescent. Tergite VIII (Fig. 2A) near trapezoid-shaped, 1.5 times as long as wide, apically covered with sparse setae and dense micro pubescence. Sternite VIII (Fig. 2A) with two large, dark colored lobes, margins with long setae. Tergite IX (Fig. 2B) subtriangular, 1.3 times as long as wide, median deeply and roundly emarginate, two lobes stout, rounded apically, lateral sides with long setae; tergite X (Fig. 2B) membranous, emarginate apically. Sternite IX (Fig. 2C) elongate, about 2.6 times as long as wide, apically rounded and setose.

Aedeagus (Fig. 3A-C). – Robust median lobe notably surpassing parameres, gradually narrowed, apical portion sharply narrowing; apex bluntly rounded, the lobe bearing sclerite inside, which with a triangular hook apically. Paramere elongate, consisting of two portions, the lateral protion well sclerotized, the inner portion transparent. Sides of the sclerotized portion paralleled, apical portion slightly sinuate, apex curved, spinous, pointing ventrad. The transparent portion subulate-shaped, apex blunt, notably surpassing the apex of the sclerotized portion, with four to six long pubescence at apical-lateral portion. Phallobase narrowed, U-shaped.

Male paratype. – Body length 7.2 mm, distinctly smaller and narrower than holotype, but other characters are almost the same as the holotype.

Female paratype. – Body length 10.2 mm, distinctly stouter than the male, sides of pronotum and elytra more convex than male (Fig. 1C). Tergite VIII longer than wide, 0.8 times as long as wide (Fig. 4A); sternite VIII almost as wide as long, with middle part and apex transparent, apical portion rounded, spiculum ventrale 2.3 times of sternite VIII length (Fig. 4B). Ovipositor (Fig. 4C) with robust styli; bursa copulatrix simple, without spines.

Immature stages. – Unknown.

Distribution. – China: Guizhou (Libo).

Etymology. – The specific epithet is dedicated to Dr. Ri-Xin Jiang (Guizhou University, China), the collector of the holotype.

Natural history. – This species was collected by beating the branches of the shrubs by umbrella (Ri-Xin Jiang and Bo-Yan Li, personal communications).

Fig. **1**. *Penia jiangi* **sp**. **nov**., habitus. **A** & **B**) Holotype, ♂. **C**) Paratype, ♀. Scale bar = 10 mm.

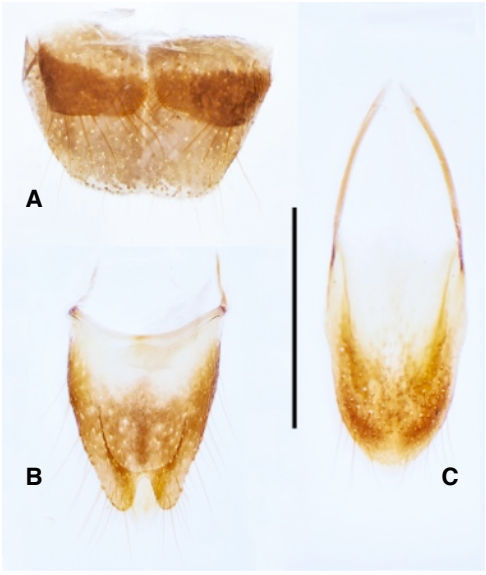

Fig. **2**. *Penia jiangi* **sp**. **nov**., holotype, ♂ (Scale bar = 1 mm).

A) Abdominal sternite VIII and tergite VIII, ventral view. **B**) Abdominal tergites IX–X, dorsal view. **C**) Abdominal sternite IX, dorsal view.

Fig. **3**. *Penia jiangi* **sp**. **nov**., holotype, ♂, genitalia (Scale bar = 1 mm).

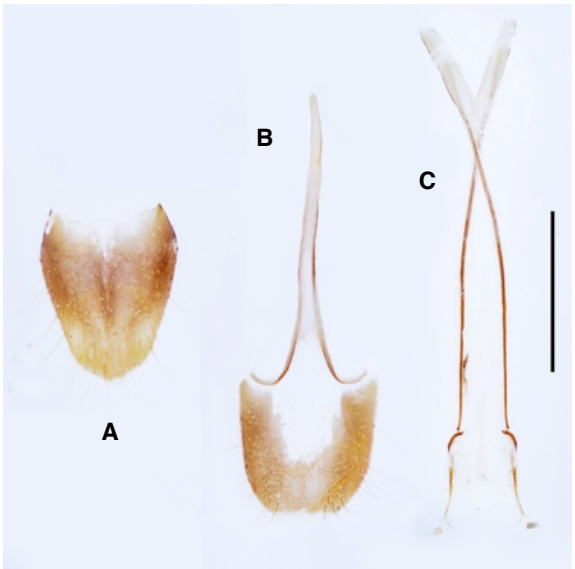

Fig. **4**. *Penia jiangi* **sp**. **nov**., paratype, ♀ (Scale bar = 1 mm).

A) Abdominal tergite VIII, dorsal view. **B**) Abdominal sternite VIII, ventral view. **C**) Ovipositor.

Remarks. – This new species gave an example to show the general outline of pronotum may be varied among one species in *Penia*, especially among the male and female.

Acknowledgements

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Résumé

Qiu L., 2021. – Une remarquable espèce nouvelle du genre *Penia* (Coleoptera: Elateridae: Dimini) décrite de Guizhou, Chine. *Faunitaxys*, 9(37) : 1 – 4.

Penia jiangi **n**. **sp**. est décrite de la province de Guizhou, Chine. L'habitus et les caractères définisant cette nouvelle espèce sont illustrés.

Mots-clés. – Coleoptera, Elateroidea, Dendrometrinae, *Penia*, taupin, morphologie, taxonomie, nouvelle espèce, Guizhou, Chine.

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Illustration de la couverture: Maolan Nature Reserve, the type locality of *Penia jiangi* **sp**. **nov**.

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