



One new species of the genus *Shoveliteratura* Shi, Bian & Chang, 2011 (Tettigoniidae: Meconematinae) from Xizang, China

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Shi *et al.* (2011) proposed the genus *Shoveliteratura*, with the type species *Shoveliteratura triangula* Shi, Bian & Chang, 2011 (type locality: Jianfengling, Ledong, Hainan, China). Up to now, *Shoveliteratura* contains three species: *Shoveliteratura pentaloba* Lu, Peng & Shi, 2021 (type locality: Cuijiang, Longsheng, Guangxi, China), *Shoveliteratura quadrata* An, Jiang & Huang, 2023 (type locality: Jinzhongshan, Longlin, Guangxi, China), and *Shoveliteratura triangula* Shi, Bian & Chang, 2011 (type locality: Jianfengling, Ledong, Hainan, China).

The genus *Shoveliteratura* Shi, Bian & Chang, 2011 differs from other known genera in the following: body small; fastigium verticis shovel-shaped, base slightly broad, narrowing, apex nearly truncate, dorsal surface with a longitudinal depression; tegmina surpassing apices of hind femora; hind wings slightly longer than tegmina. Male tenth abdominal tergite elongated posteriorly; cercus stout, inner surface of base with one process, apex with or without divergence; subgenital plate with styli; genitalia sclerotized.

In this paper, we describe one new species of genus *Shoveliteratura*, i.e. *Shoveliteratura biprominens* **sp. nov.**, and provide diagnostic illustrations. The type specimen is deposited in the Museum of Hebei University, Baoding, P. R. China.

Morphological images were acquired using Leica DFC450 microsystem and M205A digital imaging system. The photos were edited using Adobe Photoshop CC 2019. The following conventions were adopted for the specimen measurements: body length—distance from apex of fastigium verticis to posterior margin of tenth abdominal tergite in the midline; pronotum length—distance from anterior to posterior margins of pronotum in the midline; tegmen length—distance from base of tegmen to the apex; hind femur length—distance from base of hind femur to apex of genicular lobe; ovipositor length—distance from base of subgenital plate to apex of ovipositor.

Shoveliteratura biprominens sp. nov.

Chinese name 双突铲畸螽

(Fig. 1)

Description. Male. Body small. *Head.* Fastigium verticis shovel-shaped, dorsal surface with a longitudinal sulcus in midline, apex nearly truncate. Eyes globular, protruding forwards. Apical segment of maxillary palpus nearly equal to subapical one, apical area slightly inflated.

Thorax. Anterior margin of pronotum straight, posterior margin rounded; lateral lobe longer than high, humeral sinus comparatively distinct. Thoracic auditory spiracle exposed, reniform.

Tegmina and wings. Tegmina narrow, surpassing apices of hind femora, apices rounded; hind wings slightly longer than tegmina.

Legs. Fore and middle legs damaged. Hind femur unarmed on ventral surface. Internal and external margins of hind tibia with 27–31 short spines on dorsal surface respectively, bearing 1 pair of dorsal apical spurs and 2 pairs of ventral apical spurs.

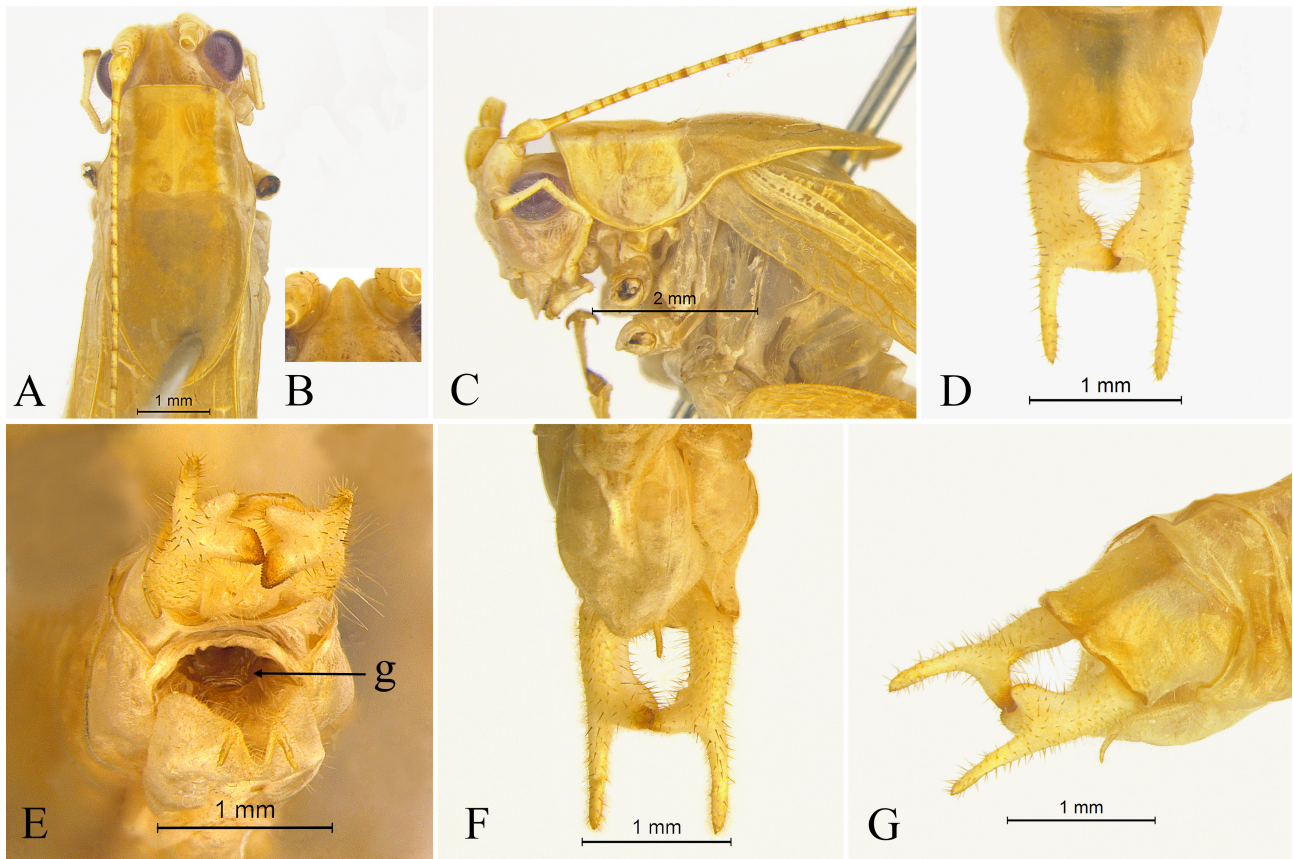


FIGURE 1. *Shoveliteratura biprominens* sp. nov., male: **A–B.** head and pronotum: **A.** dorsal view; **B.** apex of fastigium verticis; **C.** lateral view; **D–G.** apex of abdomen: **D.** dorsal view; **E.** apical view; **F.** ventral view; **G.** dorso-lateral view. Abbreviation: g. genitalia.

Abdomen. Posterior margin of tenth abdominal tergite feebly concave (Fig. 1D). Cercus long, basal half stout, cylindrical, with a projection on inner surface of middle area; apical half of projection divided into dorsal and ventral branches; dorsal branch conical, apex rounded; ventral branch slightly longer than dorsal one, nearly cylindrical, apical area with fine denticles; apical half of cercus slender, apex rounded (Fig. 1D–G). Genitalia sclerotized, gradually narrowing toward apical area, apex truncate (Fig. 1E). Subgenital plate relatively long, basal half broad, lateral margins of apical half curved dorsally, posterior margin rounded. Styli nearly cylindrical and apices rounded, inserted on ventral surface of subapical area of subgenital plate (Fig. 1E–F).

Coloration. Body light yellowish brown (probably green alive). Eyes brown. Disc of pronotum with a pair of longitudinal yellow stripes. Apices of genicular lobes of hind femora black. All spines and spurs of hind tibiae brown.

Female. Unknown.

Specimens examined. Holotype: ♂, Madi Village, Medog, Xizang, 2 August, 2024, coll. Qidi Zhu.

Measurements (mm). Body: ♂13.0; pronotum: ♂5.3; tegmen: ♂13.3; hind femur: ♂10.0.

Discussion. The new species is similar to *Shoveliteratura pentaloba* Lu, Peng & Shi, 2021, but it differs from the latter in male cercus with a projection on inner surface of middle area, its apical half divided into dorsal and ventral branches.

Etymology. The name of the new species is derived from male cercus bearing a projection on inner surface of middle area, its apical half divided into two branches, the Latin *bi-* means two, the Latin *prominens* means projecting.

Distribution. China (Xizang).

Acknowledgements

This project is supported by the National Natural Science Foundation of China (No. 32270488).

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