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## Two new species of *Rhopalopssole* (Plecoptera: Leuctridae) from China

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### Abstract

Two new species of the leuctrid genus *Rhopalopssole* from China are described, *R. curvispina* Qian & Du, **sp. nov.** and *R. triseriata* Qian & Du, **sp. nov.** The new species are compared to similar species in *R. dentata* group and *R. magnicercia* group.

**Key words:** Plecoptera, Leuctridae, *Rhopalopssole*, new species, China

### Introduction

The leuctrid genus *Rhopalopssole* has been characterized by Zwick (1977) and more recently by Sivec et al. (2008), and is distributed throughout the Oriental and eastern Palaearctic regions. Currently, 42 species have been described for China (Wu 1949, 1973; Yang & Yang 1991a, 1991b, 1993, 1994, 1995a, 1995b; Yang *et al.* 2004, 2006, 2009; Sivec *et al.* 1997, Sivec *et al.* 2008; Li & Yang 2010, 2011, 2012; Li *et al.* 2010, 2011; Qian & Du 2011, 2012a, 2012b). Two new species of *Rhopalopssole* are described from Guizhou and Sichuan Provinces of China. All type specimens are preserved in 75% ethanol and deposited in Insect Collection of Yangzhou University, Jiangsu, China.

### *Rhopalopssole curvispina* Qian & Du, **sp. nov.**

Figs. 1–3

**Material examined.** Holotype male, Guizhou Province, Zunyi City, Dasha River, 1615m, 22–29 May 2004, Leg. Liao Qi-Rong. Paratypes 3 males, the same data as holotype.

**Adult habitus.** Head brown, wider than pronotum; hind ocelli much closer to the eyes than to each other, antennae and palpi light brown. Pronotum brown, quadrate, longer than wide, all angles rounded and some black irregular stripes on it. Legs brown or light brown. Wings hyaline and veins yellowish brown.

**Male.** Approximate measurement: forewing length 6.2 mm, body length 7.0 mm. On the mid-hind margin of tergum 9, a small semicircular ridge projects dorsally from a house-shaped sclerite (Fig. 1). Subgenital plate of sternum 9 wider than long and rounded apically, basally a tongue-like vesicle bears dense hairs (Fig. 2). Central sclerite of tergum 10 with mid-posterior and margins darkly sclerotized; pair of transverse sclerites triangular with rounded angles (Fig. 1); lateral process long, slender and sinuous, approaching mid-line of segment and crossing tip of the corresponding process from other side (Figs. 1, 2). Epiproct much flattened but thick, hook-like, and terminating in a sharp tip gradually attenuated; tip extended ventrally into a point (Fig. 3), in frontal view triangular (Fig. 1). Subanal lobes narrow at base and expanding slightly to a rounded apex (Fig. 2). Cerci bent upwards at mid-length, terminating in a small spine (Fig 3).

**Female.** Unknown.

**Distribution.** Guizhou Province.