



# Article

urn:lsid:zoobank.org:pub:0AAF0138-A0DB-4BB8-828B-9A654C28C508

## A review of *Rhopalopsole magnicerca* group (Plecoptera: Leuctridae) from China

WEIHAI LI<sup>1,3</sup> & DING YANG<sup>2</sup>

<sup>1</sup>Department of Plant Protection, Henan Institute of Science and Technology, Xinxiang, Henan 453003, China.

E-mail: lwh7969@163.com

<sup>2</sup>Department of Entomology, China Agricultural University, 2 Yuanmingyuan West Road, Beijing 100193, China.

E-mail: dyangcau@yahoo.com.cn

<sup>3</sup>Corresponding author

### Abstract

The species of *Rhopalopsole magnicerca* group (Plecoptera: Leuctridae) from China are reviewed. Two additional species of the group are described as new: *R. minutospina* sp. nov. and *R. wolong* sp. nov. *Rhopalopsole longispina* and *R. xui* are considered as additional members of the group. The taxonomic relationships of new species with congeners are discussed and a key for the Chinese species in the group is presented.

**Key words:** Plecoptera, Leuctridae, *Rhopalopsole*, *Rhopalopsole magnicerca* group, new species, China

### Introduction

*Rhopalopsole* is one of the largest genera of the family Leuctridae. It presently includes over 70 known species worldwide (DeWalt et al. 2012; Qian & Du 2012 a, b & c; Stark et al. 2012). *Rhopalopsole* was relatively poorly known until Zwick (1977) in his study of the stoneflies of Bhutan provided a diagnosis of the genus. In 2008, Sivec et al. reviewed the previous works of Harrison & Stark (2008), Stark and Sivec (2008), Klapálek (1912), Okamoto (1922), Wu (1949, 1973), Illies (1966), Kawai (1967, 1968, 1969), Jewett (1958, 1975), Harper (1977) and Zwick (1977), recognizing several species groups. Currently, more than 40 species of the genus have been described from China by Klapálek (1912), Li and Yang (2010, 2011), Li et al. (2010), Li et al. (2010), Li et al. (2011), Sivec et al. (1997), Wu (1949), Yang and Yang (1991, 1993, 1994, 1995 a & b), Yang and Yang (1991, 1994), Yang et al. (2004), Yang et al. (2009), Yang and Li (2006), Sivec et al. (2008) and Qian & Du (2012 a, b & c).

The *R. magnicerca* group was recognized by Sivec et al. (2008) and originally included nine species. Three additional Vietnamese species were recently included in the group by Stark et al. (2012). In the present paper, the *R. magnicerca* group from China is reviewed. Two new species of the group are described: *Rhopalopsole minutospina* sp. nov. and *R. wolong* sp. nov. *Rhopalopsole longispina* Yang & Yang, 1991 is additionally placed in the group and *R. xui* Yang, Li and Zhu, 2004 is also included based on examinations of the type and additional material. The types and other material examined are deposited in the Entomological Museum of China Agricultural University, Beijing. Morphological terminology follows that of Sivec et al. (2008).

### Taxonomy

#### *Rhopalopsole minutospina* Li & Yang, sp. nov.

(Figs. 1–12, 47–48)

**Male.** Forewing length 4.4–4.6 mm, hindwing length 3.7–3.8 mm. Head and pronotum dark brown; compound eyes dark; antennae and mouthparts brown. Thorax brown; wings hyaline; legs brown. Abdomen brownish with terminalia brown.