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Two new species of the genus *Kamimuria* (Plecoptera: Perlidae) from China, with redescription of *Kamimuria cheni* Wu and *Kamimuria Chungnanshana* Wu

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Abstract

Two new species of the genus *Kamimuria* Klapálek, *K. digyracantha* Sun & Du sp. nov. and *K. wangi* Du sp. nov. from China are described and *K. cheni* Wu, *K. Chungnanshana* Wu. are described in this paper.

Keywords: *Kamimuria*, Perlidae, Plecoptera, new species, China

Introduction

Klapálek (1907) established *Kamimuria* as a subgenus of *Perla*, but later elevated it to generic rank (Klapálek 1912). Later, Klapálek (1923) designated *Perla tibialis* Pictet, 1841, a Japanese species, as the type species. Uchida & Isobe (1991) designated a neotype for *K. tibialis* and resurrected *K. uenoi* Kohno from synonymy. Sivec *et al.* (1988) redescribed the diagnostic characters of *Kamimuria* in reference to other Perlinae. It is a genus widespread in the Palaearctic and Oriental Regions, being particularly diverse in China. A total of 76 species have been described over the worldwide and includes 45 species residing in China (DeWalt *et al.* 2011, Sivec & Stark 2008, Sivec *et al.* 1988, 1997, Du *et al.* 1999, 2001, Du & Ran 2002, Du & Sivec 2004, 2005, Du & Wang 2005, 2007, Du 2006, Wu 1938, 1962, 1973). The type material of many species proposed by Wu (1935, 1936, 1938, 1940, 1947–1948) were lost because of the war, but for some species he designated neotypes (1962) which were deposited in the Institute of Zoology, Academia Sinica. Based on adult male morphology, two new species from China are described, and *K. cheni* Wu and *K. Chungnanshana* Wu are redescribed in this paper. The types of new species are deposited in the Insect Collection of Yangzhou University, Jiangsu, China.

Kamimuria cheni Wu, 1948

Figures 1–4

Kamimuria cheni Wu, 1948: 266; Wu, 1973, 98; Zwick, P. 1977: 85–134; Zhao Xiufu, 1982: 32; Du, 1999: 60; Sivec & Stark, 2008: 137

Perla cheni (Wu), Illies, 1966: 288.

Type material (lost). Holotype, male, China: Guangxi province, Jinxiu county, Dayao mountain.

Examined specimens. 4 male, Guangxi province, Jinxiu county, Dayao mountain, 4 May 1994, Leg. Du Yu-Zhou. Sichuan province, Guan county, 29 May 1939, 1 male, Leg. Zhou Yao. Shaanxi province, Zhouzhi county and Mei county, 8 males and 5 females, Leg. Unknown.

Description. Adult habitus (Fig 1). General color pale brown to brown; head light brown, ocellar triangle dark brown. Antennae and palpi dark brown. Pronotum brown, surface with very faint rugosities (Fig. 2).

Male. Forewing length 15–16mm. Presternum of metathorax with a small patch of hairs. Hemitergal lobes finger-like, the tips of which nearly reaching the posterior margin of the tergum 9. Tergum 9 with a median patch of