



Three new species of *Atkinsoniella* from China (Hemiptera: Cicadellidae: Cicadellini)

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Abstract

Three new species of *Atkinsoniella* Distant, 1908 from China are described and illustrated: *A. biundulata* **sp. nov.**, *A. cuspidata* **sp. nov.**, and *A. motuoensis* **sp. nov.** The type specimens of the new species are deposited in the Institute of Entomology, Guizhou University, Guiyang, China, except for *A. motuoensis*, which is deposited in the Shanghai Entomological Museum, Chinese Academy of Sciences.

Key words: Membracoidea, Auchenorrhyncha, Cicadellinae, sharpshooter, morphology, taxonomy

Introduction

The leafhopper genus *Atkinsoniella* was established by Distant (1908) for two species with *A. decisa* as its type species. Young (1986) revised the genus and included 26 species. Many species have been described following his revision, especially from China. (Cai & He 2002; Cai & Kuoh 1994, 1995; Cai & Shen 1998; Kuoh & Zhuo 1996; Kuoh 1991, 1992; Li & Wang 1994; Li & Wang 1992; Li 1992, 1993; Yang & Li 1999, 2000, 2002a, 2002b, 2002c, 2004; Yang & Zhang 2000; Yang *et al.* 2005; Zhang & Kuoh 1993). So far, 76 species are known worldwide and of these, 58 are from China. (Wilson *et al.* 2009). *Atkinsoniella* is recorded from India, Nepal, Bhutan, Burma, Thailand, Vietnam, Malaysia, Sumatra, Java, Laos, Philippines, Pakistan, Borneo, and China (Young 1986; Wilson *et al.* 2009). In this paper three new species, *A. biundulata* **sp. nov.**, *A. cuspidata* **sp. nov.**, and *A. motuoensis* **sp. nov.**, are described and illustrated based on specimens from China. These new species can be readily distinguished from other known species by size, color pattern, external morphological characters and genital characteristics.

The genital structures of males and females were prepared according to the techniques described by Oman (1949) and Mejdalani (1998), respectively. The dissected parts are stored in microvials with glycerin and attached below the specimens. The morphological terminology adopted herein follows mainly Young (1986), except for that of the head (Hamilton 1981; Dietrich 2005) and for that of the female genitalia (Nielson 1965; Davis 1975). The type specimens of the new species are deposited in the Institute of Entomology, Guizhou University, Guiyang, China (GUGC), except for *A. motuoensis*, which is deposited in the Shanghai Entomological Museum, Chinese Academy of Sciences (SEMCAS).

Atkinsoniella Distant

Atkinsoniella Distant, 1908: 235

Soibanga Distant, 1908: 236

Type species: *Atkinsoniella decisa* Distant, 1908 (by original designation).