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Review of the cicada genus *Mogannia* Amyot & Serville from China, with descriptions of three new species (Hemiptera: Cicadidae)

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Abstract

The species of *Mogannia* Amyot & Serville from China are reviewed. Twelve species are illustrated or photographed, including nine known species and three new species. Information on the biology and distribution are provided, and a key to all species of *Mogannia* from China is presented. The variation of some species of the genus *Mogannia* and the systematic status of the tribe Cicadatrini Distant are discussed. Morphological attributes for *Mogannia* indicate that it is allied to the subfamily Cicadettinae, however, we tentatively retain it in the subfamily Cicadinae, as other related genera of the Cicadatrini also need to be addressed.

Key words: Cicadatrini; Cicadinae; Cicadettinae; morphology; taxonomy; distribution

Introduction

The cicada genus *Mogannia* Amyot & Serville is characterized by its anteriorly protruding postclypeus and was formerly placed in the tribe Moganniini Distant (*sensu* Metcalf 1963a, 1963b; Duffels & van der Laan 1985). Matsumura (1907) and Kato (1933) described some species of *Mogannia* from Taiwan, but some of them are considered to be junior synonyms (Hayashi, 1976). Hayashi (1976) reviewed the genus *Mogannia* from Taiwan and the Ryukyus, illustrated five known species and provided a key to the species as well. According to Hayashi (1976), the genus *Mogannia* should be allied to *Nipponosemia* Kato and *Emathia* Stål. Recently, Lee & Hill (2010) recognized Moganniini as a junior synonym of Cicadatrini Distant and redefined the latter by including *Cicadatra* Kolenati, *Psalmocharias* Kirkaldy, *Mogannia*, *Nipponosemia* and *Emathia*. Wei *et al.* (2010) described another new genus and species, *Shaoshia zhangii* Wei, Ahmed & Rizvi, 2010 from Pakistan in Cicadatrini.

In the present paper we review the species of *Mogannia* from China including the descriptions of three new species, and state some new characters of *Mogannia* which were not noticed previously. In addition, we discuss the intraspecific variability of *Mogannia* and the systematic status of the tribe Cicadatrini. A key to the species of *Mogannia* from China is provided.

Material and methods

This study is based mainly on specimens deposited in the following institutions abbreviated in the text as follows:

BMNH	The Natural History Museum, London, UK
CAU	China Agricultural University, Beijing, China
GXNU	Guangxi Normal University, Guilin, China
IZAS	Institute of Zoology, Chinese Academy of Sciences, Beijing, China
NWAFU	Northwest A&F University, Yangling, China