



## A taxonomic study of the genus *Paralaevicephalus* Ishihara (Hemiptera: Cicadellidae: Deltocephalinae), with description of four new species from China

JICHUN XING<sup>1,2</sup>, RENHUAI DAI<sup>1,2,3</sup> & ZIZHONG LI<sup>1,2</sup>

<sup>1</sup>Institute of Entomology, Guizhou University, Guiyang, Guizhou Province, 550025, China

<sup>2</sup>Guizhou Key Laboratory for Plant Pest Management of Mountainous Region, Guizhou University, Guiyang, Guizhou Province, 550025, China

E-mail: xingjichun@yahoo.com.cn; agr.rhdai@gzu.edu.cn; lizizhong38@163.com

<sup>3</sup>Corresponding author

### Abstract

The paper deals with eight species of the genus *Paralaevicephalus* Ishihara, 1953 (Hemiptera: Cicadellidae: Deltocephalinae) from China, including four new species, *Paralaevicephalus huaxiensis* sp. nov., *Paralaevicephalus angustus* sp. nov., *Paralaevicephalus grossus* sp. nov. and *Paralaevicephalus lamellatus* sp. nov.. A key is given to distinguish all species of the genus, and illustrations of genitalia are provided. The type specimens of the new species are deposited in the Institute of Entomology, Guizhou University (IEGU).

**Key words:** leafhopper, morphology, distribution, key, taxonomy

### Introduction

The leafhopper genus *Paralaevicephalus* (Hemiptera: Cicadellidae: Deltocephalinae), was established by Ishihara (1953) for a single species, *Deltocephalus nigrifemoratus* Matsumura, 1902, from Japan. Later, Rao (1989) erected the genus *Khasiana* for a single species, *Khasiana prima* Rao, from India. Recently, Dai *et al.* (2005) made a new combination, *Paralaevicephalus prima* (Rao), synonymized *Khasiana* Rao with *Paralaevicephalus* Ishihara, and described two new species of this genus from China.

In this paper, four new species are described and illustrated from China. The type specimens of new species are deposited in the Institute of Entomology, Guizhou University, Guiyang, Guizhou (IEGU). *Paralaevicephalus* now contains eight species. A key is given to separate all species.

### *Paralaevicephalus* Ishihara

*Paralaevicephalus* Ishihara, 1953: 14.

*Khasiana* Rao, 1989: 81, synonymized by Dai, Zhang *et al.* Hu, *Paralaevicephalus* Ishihara, 2005: 404.

**Type species:** *Deltocephalus nigrifemoratus* Matsumura, 1902.

**Description.** Dirty yellow species, often with light veins on forewings. Head produced in front, slightly wider and longer than pronotum. Vertex triangular, each side near fore margin with oblique streak. Eyes black, fairly long and oblique; ocelli semitransparent, located on the lateral margin of vertex, separated from adjacent eye by approximately their own diameter. Face with dark, often confluent, transverse streaks. Frontoclypeus narrow, longer than width between eyes, anteclypeus slightly narrowed apically. Antennae arising near lower cor-