



## Revision of the leafhopper genus *Dusuna* Distant (Hemiptera: Cicadellidae: Ledorinae), with description of one new species from China

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### Abstract

The leafhopper genus *Dusuna* Distant is revised to include seven species including one new species *D. anacantha* sp. nov. from China and one new combination *D. distanti* (Schmidt) n. comb. All species are described and illustrated. A checklist to species of the genus is provided together with a key to separate the two species known from the male. Figures of an unknown species from Malaysia (possibly new) are also included.

**Key words:** Homoptera, Auchenorrhyncha, taxonomy, morphology

### Introduction

The Oriental and Pacific leafhopper genus *Dusuna* Distant is a distinctive member of Ledorinae characterized by the conspicuous rounded lateral lamelliform extensions of the pronotal margin. Distant (1907) established the genus based on females of two species, *D. mouhoti* (type species) and *D. dohertyi* from Thailand and Malaysia respectively. In China, Cai and Kuoh (1993) described *D. nigrofasciata* and *D. bimaculata*, also based on females and Cai and Yang (1997) described *D. brunnea* from the first known male and gave a revised description of the genus. In a revision of the subfamily Ledorinae, Jones and Deitz (2009) illustrated one male and one female of *Dusuna* of uncertain identity and placed the genus, with *Hangklipia*, *Parapetaloccephala* and *Titella*, in a monophyletic group characterized in having the pronotum intermediately declivous and small in size (relative to other ledorines). Here, we revise *Dusuna*, describe a new species from Hainan, China and include *D. distanti* (Schmidt) in the genus as a new combination. Five of the seven species in the genus are known only from the female so it is not possible to be certain of their identity or indeed if they are valid species. The terminology used is based on Dietrich (2005) and Rakitov (1998).

The examined specimens are deposited in institutions abbreviated in the text as follows:

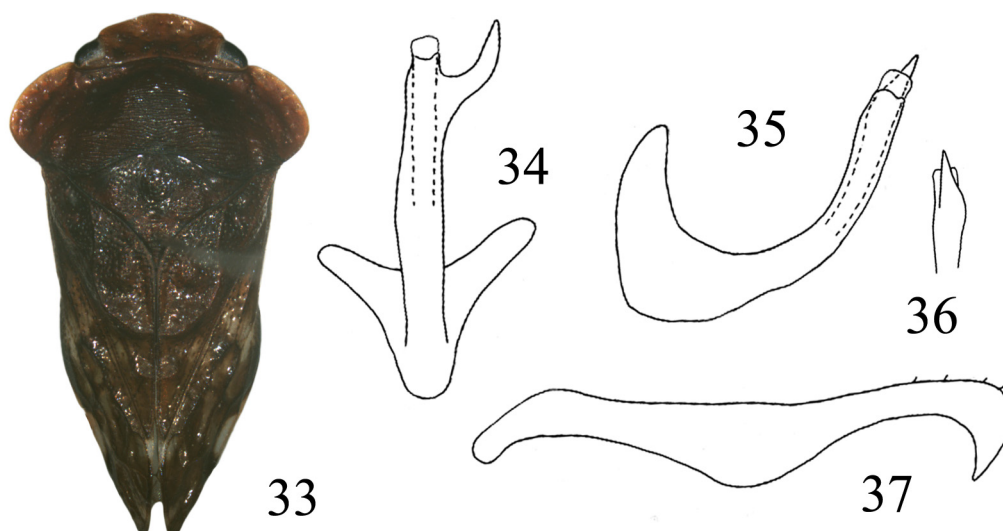
BMNH	Natural History Museum, London, U. K.
NWAFU	Entomological Museum, Northwest A&F University, Yangling, Shaanxi, China
TJNHM	Natural History Museum in Tianjin, China
MIZ	Museum and Institute of Zoology, Warsaw, Poland

### Taxonomy

#### *Dusuna* Distant

*Dusuna* Distant, 1907: 188

**Remarks.** This specimen could be the male of *D. dohertyi* being from the same region but the latter is generally pale yellowish-brown dorsally with orange venter compared to the male which is generally dark brown dorsally with venter paler brown. The male pygofer is similar to other known males with a simple posterior process but other parts of the male genitalia are distinctive.



**FIGURES 33–37.** *Dusuna* sp. 33, habitus, dorsal view; 34, aedeagus, ventral view; 35, aedeagus, left lateral view; 36, apex of aedeagus, right lateral view; 37, styles, lateral view.

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