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## Revision of the Oriental leafhopper genus *Destinoides* Cai & He (Hemiptera: Cicadellidae: Ledorinae), with a new synonym and two new combinations

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### Abstract

The leafhopper genus *Destinoides* Cai & He is revised to include two species *D. latifrons* (Walker 1851, *Ledra*) **n. comb.** and *D. conspicuus* (Distant 1907, *Petaloccephala*) **n. comb.** *Destinoides fasciata* Cai & He, 2000 is placed as a junior synonym of *D. latifrons*, **syn. nov.** These two species are redescribed and illustrated in detail and a key is given based on the males.

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

### Introduction

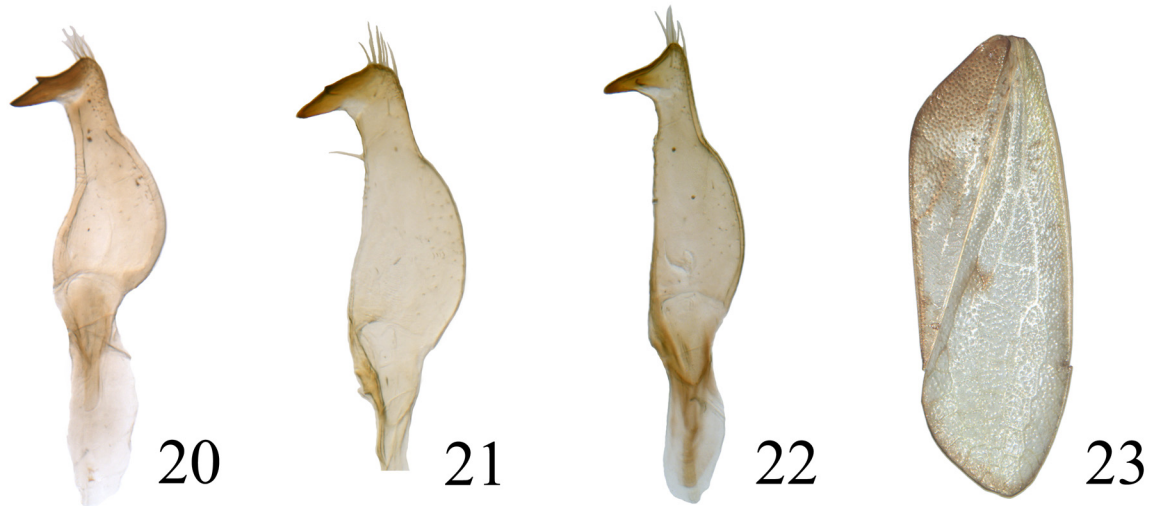
Cai and He (2000) established the genus *Destinoides* based on *D. fasciata* Cai & He (2000) and, at the same time, transferred *Ledra latifrons* Walker to the genus. Jones and Deitz (2009) reviewed the classification of subfamily Ledorinae but were unable to characterize *Destinoides* because they did not examine specimens of the type species. They speculated that *Destinoides* may be synonymous with *Petaloccephala*. As a part of our ongoing work on the subfamily Ledorinae, the identities of *Ledra latifrons* Walker and *Petaloccephala conspicua* Distant were established based on examination of the types in the Natural History Museum, London. Based on these studies, the identification of *L. latifrons* by Cai & He (2000) was found to be incorrect and in fact, their type species of *Destinoides*, *D. fasciata* Cai & He, **syn. nov.** was found to be a new junior synonym of *D. latifrons* (Walker) **n. comb.** Also, *D. conspicuus* **n. comb.** was found to belong to *Destinoides* and could be the species misidentified as *D. latifrons* by Cai & He (2000). Here we redescribe and illustrate these two species and provide a key based on males.

Although *Destinoides* is poorly differentiated from *Petaloccephala* (see remarks under genus treatment) it is retained as a valid genus pending further studies.

The terminology is based on Zhang (1990) and Rakitov (1998).

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

|       |   |
|-------|---|
| NMNH  | National Museum of Natural History, Washington, D.C., USA.                    |
| BMNH  | The Natural History Museum, London, UK  |
| IZAS  | Institute of Zoology, Chinese Academy of Sciences in Beijing, China           |
| NWAFU | Entomological Museum, Northwest A&F University, Yangling, Shaanxi, China      |
| SHEM  | Shanghai Entomological Museum, Chinese Academy of Sciences in Shanghai, China |



**FIGURES 20–23.** Variations of *Destinoides conspicuus* (Distant). 20–22, style, lateral view. 20, (ZK13), 21, (IOZ36), 22, (N43); 23, forewing (NC289).

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