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Review of the genus *Sobrala* Dworakowska (Hemiptera: Cicadellidae: Typhlocybinae: Alebrini) with description of four new species and a new record from China

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Abstract

The genus *Sobrala* Dworakowska is reported for the first time in China and a key to known species of the genus is provided. Four new species, *Sobrala acanthophylla*, *S. dactylina*, *S. lamellaris* and *S. quadrilatera* **spp. nov.** from China are described and illustrated.

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

Introduction

The leafhopper genus *Sobrala* Dworakowska (1977) belongs to the tribe Alebrini of Typhlocybinae with *Sobrala tmava* Dworakowska, 1977 as its type species. Until now, three species were known from Vietnam and India (Sikkim). In this paper, the genus *Sobrala* and its type species *S. tmava* are reported for the first time from China, and four new species are described and illustrated. A key to the known species is provided for their identification.

Material and methods

Specimens examined are deposited in the Entomological Museum, Northwest A&F University, Yangling, Shaanxi, China. Morphological terminology used in this description follows Zhang (1990) except the nomenclature of the wing venation follows Dworakowska (1993). Habitus photos were taken using a Scientific Digital micrography system equipped with an Auto-montage imaging system and a Q-IMAGING Retiga 2000R digital camera (CCD) and compressed into final images. The body measurements are from apex of vertex to tip of forewing. Abdomens and genitalia were removed from specimens and cleared in a 10% NaOH solution heated for 1–2 minutes. Cleared material was then rinsed in water and stored in glycerine. A Nikon SMZ1500 compound microscope was used for viewing and an Olympus BH-2 stereoscopic microscope for drawing.

Sobrala Dworakowska, 1977 new record to China

Sobrala Dworakowska, 1977: 12

Type species: *Sobrala tmava* Dworakowska, 1977

Body slim. Vertex slightly produced and blunt, with round black patch at apex. Head slightly narrower than pronotum. Pronotum long. Coronal suture distinct. Face long and narrow almost straight in profile. Anteclypeus