



Contribution to the genus *Omalus* Panzer, 1801 of China, with descriptions of two new species (Hymenoptera, Chrysididae)

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Abstract

In spite of that Chinese species of the genus *Omalus* Panzer, 1801 were recently revised by Wei *et al.* (2014), the study of more material has revealed the presence of other four species: two of them are new, *O. corrugatus* Rosa, Wei & Xu, **sp. nov.** (China, Guangdong) and *O. hainanensis* Rosa, Wei & Xu, **sp. nov.** (China, Hainan); the other two are newly recorded from China, *O. stella* (Semenov & Nikol'skaya, 1954) and *O. timidus* (Nurse, 1902), **comb. nov.** (from the genus *Holophris* Mocsáry, 1890). An update key to Chinese species and illustrations are provided.

Key words: Chrysididae, Elampini, *Omalus*, *Holophris*, new species, new records, China

Introduction

The genus *Omalus* Panzer, 1801 belongs to the chrysidid tribe Elampini. It includes 30 species (Kimsey & Bohart 1991; Rosa 2005, 2006, 2009; Wei *et al.* 2014). The Chinese species were recently revised by Wei *et al.* (2014), who listed eight species: *Omalus aeneus* (Fabricius, 1787), *O. berezovskii* (Semenov, 1932), *O. helanshanus* Wei, Rosa, Liu & Xu, 2014, *O. imbecillus* (Mocsáry, 1889), *O. potanini* (Semenov, 1932), *O. probiaccinctus* Wei, Rosa, Liu & Xu, 2014, *O. pseudoimbecillus* Wei, Rosa, Liu & Xu, 2014, and *O. tibetanus* Wei, Rosa, Liu & Xu 2014. Additional bibliographical data were reported by Rosa *et al.* (2014).

The examination of more material and type specimens revealed the presence of other four *Omalus* species, of which two are new for science, and two are newly recorded from China; one of the latter is transferred from the genus *Holophris* Mocsáry, 1890. The current number of species in the genus *Omalus* Panzer increase to 33.

Material and methods

All specimens were examined and described under stereomicroscope (Leica MZ125). Photographs of *O. stella* were taken with Nikon D-80 connected to the stereomicroscope Togonal SCZ and stacked with the software Combine ZP. The other photographs were taken with a digital camera (CoolSNAP) attached to a Zeiss Stemi 2000-CS stereomicroscope. Images were processed using Image-Pro Plus software.

Morphological terminology follows that of Kimsey & Bohart (1991). Abbreviations used in the descriptions as follows: **F1**, **F2**, **F3**, etc. = flagellomere 1, 2, 3 and so on; **MOD** = midocellus diameter; **MS** = malar space, the shortest distance between base of mandible and lower margin of compound eye; **OOL** = the shortest distance between posterior ocellus and compound eye; **P** = pedicel; **PD** = puncture diameter; **POL** = the shortest distance between posterior ocelli; **T1**, **T2**, **T3**, etc. = metasomal tergum 1, 2, 3 and so on.