



## The genus *Mimesa* in China with descriptions of two new species (Hymenoptera: Apoidea: Crabronidae)

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### Abstract

The genus *Mimesa* Shuckard (Crabronidae: Pemphredoninae: Psenini) from China is reviewed and a key to the Chinese species is provided. Two new species, *M. infossa* Ma, Li and Chen, **sp. nov.** from Tibet, China and *M. rhysocephalica* Ma, Li and Chen, **sp. nov.** from Yunnan, China are described and illustrated. Five species are reported from China for the first time: *Mimesa breviventris* F. Morawitz, *M. caucasica* Maidl, *M. crassipes* A. Costa, *M. sibirica* (de Beaumont), and *M. grandii* Maidl. In addition, the unknown females of *M. filippovi* (Gussakovskij) and *M. kaszabi* (Tsuneki) are described.

**Key words:** Hymenoptera, Crabronidae, *Mimesa*, new species, China

### Introduction

The genus *Mimesa* Shuckard includes 72 species of small- to medium-size predatory solitary wasps worldwide, of which 29 occur in the Palearctic, 2 in Oriental, 35 in Nearctic, 1 in Ethiopian, 3 in both Palearctic and Nearctic, and 2 in both Palearctic and Ethiopian Regions (de Beaumont, 1937, 1956, 1967; Bohart and Menke, 1976; Fahlander, 1957; Finnamore, 1980; Gayubo, 1986; Gittins, 1966; Gussakovskij, 1935, 1937; van Lith, 1965, 1974; Lomholdt, 1975; Malloch, 1933; Melo, 1999; Oehlke, 1965, 1970; Rohwer, 1910a, 1910b, 1916; Tsuneki, 1954, 1959, 1972; Wu and Zhou, 1996). Nine species of the genus have been recorded from China. During our study of *Mimesa* of China, two new species, five new records from China, and the unknown females of *M. filippovi* (Gussakovskij) and *M. kaszabi* (Tsuneki) were discovered. A key to the Chinese species of the genus is provided. The new species and the newly discovered females are described, and the new records are reported below.

### Material and methods

The specimens examined during this study were deposited in the following institutions: Yunnan Agricultural University, Kunming, Yunnan; Institute of Zoology, Academia Sinica, Beijing; China Agricultural University, Beijing; and Zhejiang University, Hangzhou, Zhejiang, China.

The specimens were observed and illustrated with the aid of an Olympus stereomicroscope (SZ Series, Japan) with an ocular micrometer. For the terminology we mainly follow Bohart and Menke (1976). The abbreviations in the text are as follows: HLD, head length in dorsal view (the distance from frons to occipital