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# Two new species of *Xenysmoderodes* from China (Coleoptera: Curculionidae: Ceutorhynchinae)

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# Abstract

*Xenysmoderodes* Yoshitake, 2007, belonging to the tribe Mecysmoderini, was described as a monotypic genus from Japan, including the species *X. sasajii* Yoshitake. Two new species, *X. concavus* **sp. nov.** and *X. flos* **sp. nov.**, are described here from China, providing a new country record for this genus. We revise the description of the genus based on three species and present an updated key to the species.

Key words: biodiversity, weevils, systematics

### Introduction

The tribe Mecysmoderini Wagner, 1938, at present includes 8 genera and 107 species, mainly distributed in the Oriental region (Colonnelli, 2004; Korotyaev, 2004; Yoshitake, 2007). It differs from other tribes by the basal margin of the pronotum projecting backwards at the middle, the hidden scutellum, and the antennal funicle with 6 articles. At present, there are 6 genera and 16 species of this tribe recorded from China (Pascoe, 1870; Hustache, 1920; Voss, 1958; Korotyaev, 1989; Korotyaev, 1992; Yoshitake, 2005; Huang, Zhang & Pelsue, 2006).

*Xenysmoderodes* was established by Yoshitake (Yoshitake, 2007) based on *X. sasajii* Yoshitake from Honshu and the Izu Islands, Japan. It differs clearly from other genera of Mecysmoderini by the following characters: rostrum in dorsal view parallel-sided in basal 2/3, then curved and moderately broad towards the apex; pronotal carina complete, pronotal spine acutely projected to the basal 1/3 of elytral intervals; sternal canal evident only before procoxae; elytral intervals convex, the basal 1/3 of interval 1 possessing a distinct, dense patch of oval scales, the middle of interval 8 with a small spot of white, oval scales; elytral striae linear, punctures in striae deep and separated by a distance more than their diameter. A study of the unsorted specimens of Mecysmoderini in the Institute of Zoology's collection has brought to light two new species of *Xenysmoderodes* in China. These species are described and illustrated, and a generic redefinition and key to the species are also provided.

### Materials and methods

Specimens examined for this study are deposited in the insect collection of the Institute of Zoology, Chinese Academy of Sciences, Beijing, China (IZCAS). Photographs were taken with a CCD Qimagine MircoPublisher 5.0 RTV mounted on a Zeiss SteREO Discovery V.12. Extended focus images were generated with Auto-Montage Pro 5.03.0061 and edited with Adobe Photoshop CS 5.0 when required. External structures were studied under a binocular Zeiss SteREO Discovery V.12 microscope. Internal characters were studied as follows: the abdomen was first removed from the body and then digested in 10% NaOH solution for 1–2 hours. Genitalia and terminalia extracted from the abdomen were temporarily mounted on a slide in pure water, and examined under a Leica