



Four new eriophyoid mite species in the tribe Anthoceptini (Acari: Eriophyidae: Phylloceptinae) from China

ZHEN WANG & XIAO-YUE HONG¹

Department of Entomology, Nanjing Agricultural University, Nanjing, Jiangsu 210095, China

¹Correspondent author: xyhong@njau.edu.cn

Abstract

In this paper, four new eriophyoid mite species in the tribe Anthoceptini from China are described and illustrated: *Abacarus fopingi* **sp. nov.** on *Rhus chinensis* Mill. (Anacardiaceae); *Abacarus jiuhuaensis* **sp. nov.** on *Spodiopogon sibiricus* Trin. (Gramineae); *Indotegolophus bambusae* **sp. nov.** and *Aculochetus wanluoensis* **sp. nov.** on *Bambusa* sp. (Gramineae). All species are vagrant on the undersurface of leaves, causing no apparent damage on the host plant. A key to the species of *Abacarus* from China is provided.

Key words: eriophyid mites, taxonomy, key, Shaanxi Province, Anhui Province

Introduction

The tribe Anthoceptini was established by Amrine & Stasny (Amrine & Stasny 1994) based on the type genus *Anthoceptes* Nalepa, 1892 and characterized as: dorsal annuli lacking lateral extensions; prodorsal shield with scapular setae on or near margin; setae usually directed divergently posteriad; scapular setae with tubercles either cylindrical or rounded, or with basal axes transverse. Up to 2003, this tribe is believed to comprise about 768 species in 48 genera in the world (Amrine *et al.* 2003).

The genus *Abacarus* was established by Keifer (Keifer 1944) based on the type species *Calepitrimerus acalyptus* (Keifer 1939). Up to now, this genus held 25 species known to occur in China (Chen *et al.* 2004; Huang 2001a, b & c 2006; Huang & Cheng 2005; Huang & Wang 2004; Kuang 1995, 1997 & 1999; Kuang & Gong 1996; Kuang & Hong 1989; Kuang *et al.* 2005; Kuang & Zhuo 1987; Li *et al.* 2006; Lin & Kuang 2001; Wei *et al.* 2004; Xin & Ding 1982). The genus *Indotegolophus* was established by Chakrabarti & Mondal (Chakrabarti & Mondal 1980) based on the type species *Indotegolophus darjeelingensis* Chakrabarti & Mondal, 1980, and the genus only held 2 species known to occur worldwide (Amrine *et al.* 2003). The genus *Aculochetus* was established by Amrine (Amrine 1996) based on the type species *Monochetus esulae* (Liro 1943).

From 2004 to 2007, field surveys were conducted in Shaanxi Province (northwestern China) and Anhui Province (east China). Four new eriophyoid mite species in the tribe Anthoceptini were found and described in this paper.

Material and methods

Species of eriophyid mites were collected from Shaanxi and Anhui Provinces, China. The morphological terminology used here follows Lindquist (1996) and the generic classification is made according to Amrine *et al.*