



Six new species of *Tetra* Keifer (Acari: Eriophyidae: Phyllocoptinae) from China

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Abstract

In this paper, six new species of *Tetra* Keifer from China are described and illustrated, namely *Tetra actinidia* sp. nov. on *Actinidia* sp. Lindl. (Actinidiaceae); *Tetra coriariae* sp. nov. on *Coriaria nepalensis* Wall. (Coriariaceae); *Tetra diamantiacae* sp. nov. on *Rhamnus diamantiaca* Nakai (Rhamnaceae); *Tetra hupeanae* sp. nov. on *Dalbergia hupeana* Hance (Leguminosae); *Tetra sinicusis* sp. nov. on *Dipentodon sinicus* Dunn (Celastraceae); *Tetra zhouzhis* sp. nov. on *Pistacia chinensis* Bunge (Anacardiaceae). A key to the species of *Tetra* in China is provided. The eriophyoid mite species described here are vagrants on leaf surfaces.

Key words: eriophyoid mites, key, taxonomy, Shaanxi Province, Heilongjiang Province, Anthocoptini

Introduction

The genus *Tetra* was established by Keifer (Keifer 1944) based on the type species *Phyllocoptruta concava* Keifer, 1939. It can be differentiated from the other genera in the Anthocoptini by its prodorsal shield with frontal lobe and without spines projecting from anterior, scapular tubercles on rear margin, prominent scapular setae (usually directed divergently posterior) and without posterior plate; dorsal opisthosoma not flat, without thickened bands and with a wide middorsal longitudinal furrow; all coxal setae present; and legs with usual series of setae (Amrine *et al.* 2003).

As of 2003, *Tetra* included 87 species world-wide (Amrine *et al.* 2003). To date, 34 species occurred in China (Kuang & Hong 1989; Kuang & Zhuo 1989; Kuang 1991 & 1995; Hong & Zhang 1996; Lin *et al.* 1997; Kuang & Zhang 1999; Huang 2001; Wei *et al.* 2003; Huang & Wang 2004; Wang & Lu 2004; Kuang *et al.* 2005; Xue & Hong 2005; Hong *et al.* 2006; Li *et al.* 2006; Xue *et al.* 2006). During 2005 and 2006, field surveys were conducted in Shaanxi (northwestern China) and Heilongjiang Provinces (northeastern China). Six species of the genus *Tetra* were found to be new to science. A key to species in the genus *Tetra* in China is listed herein. All the new species are vagrants on the leaf surface and no damage to the host was observed.

The morphological terminology used follows Lindquist (1996) and the generic classification is made according to Amrine *et al.* (2003). All specimens were examined with a Leica DMR (Germany) phase-contrast microscope and semi-schematic drawings were made. Measurements are given as a mean followed by the range in brackets, are in micrometers (µm), and are lengths when not specified. All type specimens are deposited as slide mounted specimens in the Arthropod/Mite Collection of the Department of Entomology, Nanjing Agricultural University, Jiangsu Province, China.