

A review of Chinese *Phyllocoptes* Nalepa (Acari: Eriophyoidea: Eriophyidae: Phyllocoptinae) with descriptions of five new species

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Abstract

Five new species of the genus *Phyllocoptes* Nalepa from China are described: *Phyllocoptes euonymusae* sp. nov. on *Euonymus alatus* (Thunb.) Sieb. (Celastraceae); *Phyllocoptes asperatae* sp. nov. and *Phyllocoptes dangchangii* sp. nov. on *Picea asperata* Mast. (Pinaceae); *Phyllocoptes japonicae* sp. nov. on *Lonicera japonica* Thunb. (Caprifoliaceae) and *Phyllocoptes lyciumi* sp. nov. on *Lycium chinense* Mill. (Solanaceae). All species described here are vagrant on the undersurface of host leaves.

Key words: Eriophyidae, *Phyllocoptes*, key, taxonomy, Gansu and Shaanxi Provinces, new species

Introduction

The genus *Phyllocoptes* was established by Nalepa (1887) and is the type genus and one of the largest genera in the subfamily Phyllocoptinae. It can be differentiated from other genera in the Phyllocoptinae by empodium entire; scapular setae with tubercles placed ahead of rear shield margin and directed forward, up or centrad; opisthosoma viewed dorsally with annuli evenly downcurved over lateral opisthosoma margin, dorsal annuli normal, dorsum of opisthosoma evenly rounded, body usually fusiform; prodorsal shield with anterior lobe over gnathosoma, without projections; all setae on the opisthosoma present and normal.

Up to now, *Phyllocoptes* includes more than 160 species from all over the world and 25 species are known to occur in China (Amrine, Stasny & Flechmann, 2003; Huang, 2001; Huang & Boczek, 1996; Keifer, 1939; Kuang, 1987, 1991 & 2000; Kuang, Gong & Luo, 1998; Kuang & Hong, 1989a, b; Kuang, Hong & Huang, 1992; Kuang, Luo & Wang, 2005; Liu & Kuang, 1998; Nalepa, 1887 & 1890; Xue & Hong, 2005a,b). A key to species in the genus *Phyllocoptes* in China is listed herein. During field surveys conducted