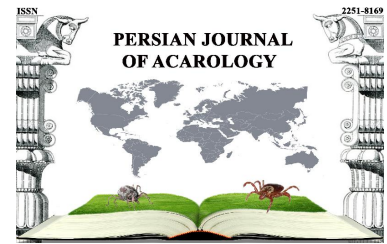




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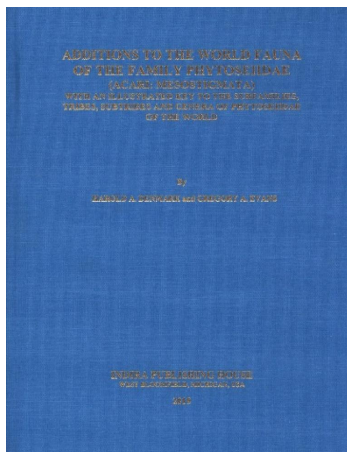


Book Review

Review of the “Additions to the World Fauna of the Family Phytoseiidae (Acari: Mesostigmata) With an Illustrated Key to the Subfamilies, Tribes, Subtribes and Genera of Phytoseiidae of the World”

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Harold A. Denmark and Gregory A. Evans
Indira Publishing House, P.O. Box 250456, West Bloomfield, MI
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There are some very good articles in the International Journal of Acarology (IJA) and very good books on the systematics of Phytoseiidae, both published by Indira Publishing House. It is interesting that Harold Denmark at the age of 98 is still active and publishing on phytoseiid systematics. I met him on the 35th anniversary of the IJA in Detroit in 2009. Acarologists of Iran know him from his article co-authored with Dr. H. Daneshvar entitled: “Phytoseiids of Iran (Acarina: Phytoseiidae)” published in IJA in 1982.

In their new book, Denmark and Evans discuss and illustrate the morphology of the family Phytoseiidae including details of their dorsal and ventral chaetotaxy and adenotaxy. Four subfamilies, namely Amblyseiinae, Typhlodrominae, Phytoseiinae and Macroseiinae; 143 species belonging to 40 genera are included. Diagnoses for all 143 species and illustrated keys to the subfamilies, tribes, subtribes, and genera of Phytoseiidae of the world are presented.

The following ten new genera are described and illustrated: *Acaroseius*, *Ammanoseius*, *Collyerseius*, *Conanseius*, *Fuseius*, *Guatemalus*, *Jaynella*, *Parameyerius*, *Prasadoseiulus*, and *Vikramus*. Fifty-four new species in 22 genera are described and illustrated, and 27 new combinations are proposed. Eighty-five species are redescribed and illustrated because their original descriptions were too brief and/or their original illustrations lacked sufficient detail to distinguish them from other known species. The status of seven taxa is changed: *Amathia* Chaudhri, Akbar and Rasool, 1979 is

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reinstated as a valid genus; *Amblydromella* (*Amblydromella*) *nodosa* (De Leon), *Amblyseiulella* *nucifera* (Gupta, 1979), *Amblyseius* *driggeri* Specht, 1968, *Amblyseius* *assiniboin* Chant & Hansell, 1971, *Paraseiulus* *subsoleiger* (Wainstein, 1962) and *Typhlodromus* *tetramedius* Zaher & Shehata, 1970 are removed from synonymy and reestablished as valid species. In addition, *Amblyseius* *denmarki* El-Brolosy, in Zaher (1986) and *Amblyseius* *rusticanus* Athias-Henriot, 1960 are considered as junior synonyms of *Amblyseiella* *setosa* Muma, 1955.

Tables of the number of variable dorsal setae and the number of setae on sternal and ventrianal shields for all genera of Phytoseiidae are provided as well as 271 figures, including 117 illustrations of representatives of all genera in the key to the world genera of Phytoseiidae. The publisher's advertised price of USD\$240.00 is very reasonable for a book of this size, importance, and figures with high quality of the glossy paper. It will be the fundamental reference book for the taxonomy of the family Phytoseiidae for many years. If anybody would like to work on taxonomy of phytoseiids, it is necessary to study and work with this new and comprehensive book.

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