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Theses and Dissertations

- ALEXANDER, KEVIN D.** (1997): Systematics of the stonefly tribe Suwaliini and behavioral studies of selected species in the stonefly families Chloroperlidae and Perlidae. - PhD dissertation in biological Sciences, University of North Texas, Denton, TX, USA, 200 pp.
- SAND, K.** (1997): Life cycle studies of Ephemeroptera and Plecoptera in a Norwegian mountain area, Øvre Heimdalen - thesis in zoology, University of Oslo, Norway, 39 pp.
- SPETH, S.** (1997): Aspekte der Respiration und des Verhaltens limnischer Insekten-Larven (Insecta) bei Sauerstoffmangel (Aspects of the respiration and behaviour of limnic insect larvae (Insecta) during oxygen deficits). - PhD-thesis, University of Kiel, 107 pp.
- TOWNSEND, GREG** (1994): The life history of *Pteronarcys californica* (Plecoptera) in the Crowsnest River. - Masters thesis in biological sciences, University of Calgary, Canada, 88 pp.
- YUZHOU, DU** (1997): A taxonomic study of the family Perlidae from China (Plecoptera: Perloidea). - PhD dissertation in entomology, Entomol. Mus. Northwestern Agricultural University, Yangling, Shaanxi, P. R. China.

Editor's Note: On the following page is a modified summary (without new species names) of this dissertation by permission of Dr. Yuzhou:

**A DISSERTATION SUBMITTED IN
PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE
DEGREE OF PH. D. IN ENTOMOLOGY**

**A Taxonomic Study on the Family Perlidae from China
(Plecoptera: Perloidea)**

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Summary

The taxonomic study on Chinese Perlidae, the largest family in the order Plecoptera, is conducted. The thesis is divided into six parts: introduction, material and methods, morphology, phylogeny, biogeography, taxonomy and discussion. Firstly, the research history on the Perlidae or stoneflies both in the world and in China is reviewed. In morphological parts, the taxonomics characters and terms are outlined. Then, the higher classification and phylogeny in the whole order, as well as the Perlidae are briefly reviewed. The phylogentic program Hennig86(version 1.5) is used to analyze the phylogentic relationship of 18 genera in the Perlidae. Next, the general biogeography within the family Perlidae is summarized. The distribution characters of the Perlidae in China are probed preliminarily. Finally, based on the examination of about 3000 specimens, 18 genera and 153 species of the Perlidae from China are recognized. Among them, 69 species are described as new to science, 3 species as new to China. Eight new combinations and two synonyms are proposed. Keys are presented to facilitate the identification of all taxa, including subfamily, tribe, genera and species. All the genera and species of Chinese Perlidae are described or redescribed.

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