

Tarsonemidae of China

(Acari: Prostigmata):

An Annotated and Illustrated Catalogue and Bibliography

Systematic and Applied Acarology Special Publications 3

JIANZHEN LIN & ZHI-QIANG ZHANG

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Abstract

This catalogue provides information for 93 species belonging to 15 genera in three subfamilies of the Tarsonemidae known from China. For each taxon, the following information is provided (1) synonyms, (2) bibliographic information and (3) notes (in parenthesis) indicating the content of the papers cited. Illustrations are included for most species described from China in journals not commonly available in libraries outside China.

It is noted that *Cheylotarsonemus minutus* Tseng & Lo, 1980 is preoccupied by *Lupotarsonemus minutus* Attiah, 1970, both now placed in *Tarsonemus*. *Tarsonemus brevicorpus* Lin **nom. nov.** is proposed as a replacement name for *minutus* Tseng & Lo.

Key words: Acari, Tarsonemidae, catalogue, illustrations, bibliography

Introduction

This catalogue aims to bring together in one book an index to published information (up to September 1998) about all species of tarsonemid mites known in China. This is the second in a series of books in English to make known to the English-speaking world the vast acarological literature published in Chinese. The first one was on eriophyoid mites (Hong & Zhang 1996).

This project was first initiated when Dr. Zhang visited Fujian in the summer of 1997. Dr. Zhang suggested to Mr. Lin the ideas of preparing this catalogue and they together outlined how it would be prepared. They then pooled their resources in terms of publications relating to Chinese Tarsonemidae and Mr Lin keyed in the majority of the text. Dr Zhang worked with Mr Lin when he visited Fujian in September and October 1998, completing the first draft, which was brought to London to be revised, indexed and completed by Dr. Zhang for publication.

The catalogue is organized systematically by subfamilies and tribes. Genera within each tribe/subfamilies and species within each genus are listed alphabetically. Entries for each taxon include: (1) synonyms, (2) references including such bibliographic information as name(s) of the author(s), year of publication, journal title plus volume number and page number or book title, publisher and page number, and (3) notes (in parenthesis) indicating the content (type locality, hosts and distribution etc.) of the papers cited; references are listed chronologically within each entry.

Illustrations are provided for most species described from China in journals not commonly available in libraries outside China.

The catalogue and illustrations are followed by a full list of references arranged alphabetically by author.

This book includes 93 Chinese species belonging to 15 genera in three subfamilies of the Tarsonemidae. This accounts for about 18% of the 524 described species of the Tarsonemidae in the world.

Catalogue

Abbreviations

BMNH (The Natural History Museum, London, UK).

CNC (Canadian National Collection, Ottawa, Canada).

CNCIA (Canadian National of Insects and Arachnids, Ottawa, Canada).

DAZTARI (Department of Applied Zoology, Taiwan Agricultural Research Institute, Wufeng, Taichung, Taiwan, China).

DBFU (Department of Biology, Fudan University, Shanghai, China 200433).

DBSBMSNBUMS (Department of Biology, School of Basic Medical Science, Norman Bethune University of Medical Science, Changcun, China).

DPPSAU (Department of Plant Protection, Shenyang Agricultural University, Shenyang 110161, China).

ERDARSUSDA (Entomology Research Division, ARS, U. S. Department of Agriculture, Washington, D. C. 20250, USA).

IPPPFAAS (Institute of Plant Protection, Fujian Academy of Agricultural Sciences, Fuzhou 350013, China).

TBOBCIQMEA (Tainan Branch Office, Bureau of Commodity Inspection and Quarantine, Ministry of Economic Affairs, Tainan, Taiwan 700, China).

USNM (United States National Museum, Washington, D.C., USA).

Family Tarsonemidae Canestrini & Fanzago

- Tarsonemidae: Agricultural College of South China (ed.) 1963. *Agricultural Entomology*. Vol. 2. Agricultural Press, Beijing: 775 (Brief diagnosis).
- Tarsonemidae: Zhang & Pan, 1975. *Guangdong Agricultural Science*, 1975: 51 (Listed).
- Tarsonemidae: Lo & Hor, 1977. *Natural Science Council Monthly*, 5(4): 279 (Listed).
- Tarsonemidae: Wang *et al.*, 1977. *Entomological Knowledge*, 14(2): 61 (Keyed, occurrence and injury).
- Tarsonemidae: Zhang & Pan, 1978. *Entomological Knowledge*, 15(5): 138 (Listed).
- Tarsonemidae: CDIPC, (ed.) 1979. *Crop Diseases and Insect Pests of China*. Agricultural Press, Beijing: 245 (Listed).
- Tarsonemidae: Shenyang Agricultural College, (ed.) 1980. *Vegetable Entomology*. Agricultural Press, Beijing: 80 (Brief diagnosis).
- Tarsonemidae: CDIPC, (ed) 1981. *The Crop Diseases and Insect Pests of China*. Agricultural Press, Beijing: 1498 (Listed).
- Tarsonemidae: Liang & Yang, 1981. *A Manual of Keys to Families of the Acari*. Shanghai Science and Technology Press, Shanghai: 76 (Keyed).
- Tarsonemidae: Yang & Wu, 1981. *A Checklist of the Forest Insects of China*. Chinese Forest Press., Beijing: 261 (Listed).
- Tarsonemidae: Kuang, 1983. In: Chinese Academy of Forestry (ed.) *The Forest Insects of China*. China Forestry Press. Beijing: 937 (Listed).
- Tarsonemidae: Yu *et al.*, 1983. *Zhejiang Agricultural Science*, (5): 249 (Listed).
- Tarsonemidae: Cai *et al.*, 1984. *Overseas Agricultural Science and Technology*, (2): 20 (Listed).
- Tarsonemidae: Tseng, 1984. *Acarology VI*, 2: 273 (Listed).
- Tarsonemidae: Xin, 1984. *Outline of Acarology*. High Education Press, Beijing: 185 (Biology and habitat).
- Tarsonemidae: Su & Ding, 1984. In Jiangxi University (ed.), *Chinese Agricultural Acari*, Shanghai Science and Technology Press, Shanghai: 245 (Morphology, biology and key to genera).
- Tarsonemidae: Lin & Zhang, 1985. *Crop and Cultivation*, (1): 51 (Listed).
- Tarsonemidae: Meng *et al.*, 1985. *Control of Vegetable Diseases and Insect Pests*. Beijing Press: 126 (Listed).

- Tarsonemidae: Yang, 1985. *Teach Yourself Agricultural Entomology*. Agricultural Press, Beijing: 103 (Listed).
- Tarsonemidae: Zhou, 1985. *Integrated Control in Agricultural Cultivation*, (2): 58 (Listed).
- Tarsonemidae: Kuang, 1986. *Agricultural Acarology*, Agricultural Press, Beijing: 97 (Diagnosis and agricultural importance).
- Tarsonemidae: Yang & Liang, 1986. *Knowledge of Acari*. Sciences Press, Beijing: 44 (Economic importance, morphology and biology).
- Tarsonemidae: Yao, 1986. *Beneficial and Pest Insects in Storage Houses*. China Financial and Economic Press, Beijing: 378 (Listed).
- Tarsonemidae: Yi *et al.*, 1986. *Control of Diseases and Insect Pests on Vegetable and Edible Fungi*. Chongqing Press, Chongqing: 137 (Listed).
- Tarsonemidae: Chen, 1987. In: Zhejiang Agricultural University (ed.) *Agricultural Entomology*. Shanghai Science and Technology Press, Beijing: 223 (Listed).
- Tarsonemidae: Huang, 1988: *Illustrations of Insect Pests on Vegetables*. Popular Science Press, Guangzhou: 26 (Listed).
- Tarsonemidae: Li & Li, 1988. *Acarology*. Chongqing Press, Chongqing: 86 (Diagnosis and key to genera).
- Tarsonemidae: Xin, 1988. *Applied Acarology*. Fudan University Press, Shanghai: 43 (Morphology and ecology).
- Tarsonemidae: Zeng *et al.*, 1989. *Journal of Fujian Academy of Agricultural Sciences*, 4(2): 85 (Listed).
- Tarsonemidae: Wen, 1990. In: Liu & Lu (eds.) *Medical Entomology*. Science Press, Beijing: 477 (Diagnosis and review).
- Tarsonemidae: Zhang & Lin, 1990. *Journal of Fujian Academy of Agricultural Science*, 5(1): 54 (Listed).
- Tarsonemidae: IFTCICAAS (ed.), 1992. *Disease and Pest Fauna of Fruit Trees in China*. Agricultural Press, Beijing: 1008 (Listed).
- Tarsonemidae: Li *et al.*, 1992. *Journal of Southwest Agricultural University*, 14(1): 30 (Listed).
- Tarsonemidae: Ma & Wang, 1992. In Chen & Ma (eds.), *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist, review, biological studies).
- Tarsonemidae: Lin & Zhang, 1993. In: Zhao (ed.), *Bulletin of Scientific Investigation in Wuyishan Natural Reserve*. Fujian Science and Technology Press, Fuzhou: 624 (Checklist and distribution).
- Tarsonemidae: Lin, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 44 (Economic importance).

- Tarsonemidae: Yu & Yang, 1995. *One Hundred and Fifty Questions in Celery Production*. China Agricultural Press, Beijing: 162 (Listed).
- Tarsonemidae: Zhang, 1995. *Disease and Insect Pests of Tea Tree*. Agricultural Press, Beijing: 307 (Listed).
- Tarsonemidae: Yang *et al.*, 1996. *New Techniques for Melon Cultivation in Daynight Greenhouses*. China Agricultural Press, Beijing: 182 (Listed).
- Tarsonemidae: Yu & Zhang, 1996. *Edible Fungi*, (6): 35 (Listed).
- Tarsonemidae: Zeng *et al.*, 1996. *Entomological Journal of East China*, 5(1): 108 (Listed).
- Tarsonemidae: Li & Fan, 1997. *Systematic & Applied Acarology*, 2: 249 (Listed).
- Tarsonemidae: Zhang & Liang, 1997. *An Illustrated Guide to Mites of Agricultural Importance*, Tongji University Press, Shanghai: 91 (Diagnosis, classification, biology, bibliography, key to genera).

Subfamily Pseudotarsonemoidinae Lindquist

- Pseudotarsonemoidinae: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

Tribe Pseudotarsonemoidini Lindquist

Genus *Polyphagotarsonemus* Beer & Nucifora

- Polyphagotarsonemus*: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 125 (Diagnosis).
- Polyphagotarsonemus*: Cai *et al.*, 1984. *Overseas Agricultural Science and Technology*, (2): 20 (Listed).
- Polyphagotarsonemus*: Su & Ding, 1984. In: Jiangxi University (ed.) *Chinese Agricultural Acari*, Shanghai Science & Technology Press, Shanghai: 251 (Diagnosis).
- Polyphagotarsonemus*: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 55 (Diagnosis).
- Polyphagotarsonemus*: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

***latus* (Banks)**

- Tarsonemus translucens*: Chen, 1957. *Acta Entomologica Sinica*, 7(2): 197 (Listed).
- Hemitarsonemus latus*: Lo & Chao, 1972. *Journal of Taiwan Agricultural Research*, 21(1): 59 (Host: string bean; distribution: Taiwan).
- Polyphagotarsonemus latus*: Teng, 1976. *Entomological Knowledge*, 13(3): 85 (Habits, injury, occurrence in relation to environment conditions and control methods).
- Tarsonemid mite: Lin *et al.*, 1978. *Journal of Agricultural Research of China*, 102: 86 (Plant resistance and control).
- Polyphagotarsonemus latus*: Tseng, 1978. *Academia Sinica Institute of Zoology Monograph Series*, (3): 232 (Morphology, host: tea and grape).
- Polyphagotarsonemus latus*: Yang, 1978. *Scientific Experiment in Countryside*, (9): 6 (Host: tea, pepper; distribution: Shichuan & Zhejiang).
- Polyphagotarsonemus latus*: Anhui Agricultural College, (ed.) 1980. *Tea Tree Diseases and Insect Pests*. Agricultural Press, Beijing: 257 (Distribution, host, morphology, habits and control).
- Polyphagotarsonemus latus*: DTLAAC (ed.) 1980. *Tea Tree Diseases and Insect Pests*. Anhui Science and Technology Press, Hefei: 106 (Morphology, habit, control).
- Polyphagotarsonemus latus*: Shenyan Agricultural College, (ed.) 1980. *Vegetable Entomology*. Agricultural Press. Beijing: 229 (Distribution, food habit, morphology, life habits and control methods).
- Polyphagotarsonemus latus*: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 125 (Diagnosis, host and distribution).
- Polyphagotarsonemus latus*: Zhang, 1980. *Entomological Knowledge*, 17(5): 203 (Morphology, distribution, biology and control).
- Polyphagotarsonemus latus*: ACSC (ed.) 1981. *Agricultural Entomology*. Agricultural Press, Beijing: 635 (Symptom of damage, morphology).
- Polyphagotarsonemus latus*: CDIPC (ed.) 1981. *Crop Diseases and Insect Pests in China*. Agricultural Press, Beijing: 1498 (Distribution, host, morphology, habits and control methods).
- Polyphagotarsonemus latus*: Yang & Wu, 1981. *Checklist of the Forest Insects of China*. Chinese Forestry Press, Beijing: 261 (Host, distribution).
- Polyphagotarsonemus latus*: Yang & Chen, 1982. *Entomological Knowledge*, 19(2): 24 (Biology, ecology and control).
- Polyphagotarsonemus latus*: Kuang, 1983. In: China Academy of Forestry (ed.) *For-*

- est Insects of China*. China Forestry Press, Beijing: 937 (Distribution, host, morphology and biology).
- Polyphagotarsonemus latus*: Li & Li, 1983. *Journal of Southwestern Agricultural College*, 3: 46 (Morphology, injury, habitat, host: pepper *Capsicum annum* L., distribution: Beijing, Zhejiang, Hubei, Hunan, Guizhou, Sichuan and Taiwan).
- Polyphagotarsonemus latus*: Zhang *et al.*, 1983. *Family Vegetable Garden*. Agricultural Press, Beijing: 174 (Host, injury, habits, morphology and control methods).
- Polyphagotarsonemus latus*: Cai *et al.*, 1984. *Overseas Agricultural Science and Technology*, (2): 20 (Systematic position, distribution, host, injury, life history and control methods).
- Polyphagotarsonemus latus*: Liao, 1984. *Control Technology for Insect Pests on Crops*. Science and Technology Literature Press, Chongqing Branch, Chongqing: 123 (Morphology, ecology).
- Polyphagotarsonemus latus*: Pan, 1984. *Calender for Control of Major Vegetable Diseases and Insect Pests*. Science and Technology Literature Press, Beijing: 8 (Injury, host: eggplant, pepper, tomato, potato, kidney bean, cowpea, cucumber).
- Polyphagotarsonemus latus*: Su & Ding, 1984. In: Jiangxi University (ed.) *Chinese Agricultural Acari*, Shanghai Science and Technology Press, Shanghai: 251 (Diagnosis, distribution, host, biology).
- Polyphagotarsonemus latus*: Wen & Lee, 1984. *Journal of Agricultural Research of China*, 33(1): 81 (Population, injury and occurrence).
- Polyphagotarsonemus latus*: Xin, 1984. *Outline of Acarology*. High Education Press, Beijing: 188 (Morphology).
- Polyphagotarsonemus latus*: Zhang, 1984. *Tea Bulletin*, (2): 27 (Occurrence, symptom of injury, morphology and control methods).
- Polyphagotarsonemus latus*: Chen *et al.*, 1985. *Journal of Southwest Agricultural College*, (3): 175 (Spatial distribution patterns, influence of quadratsize; host: pepper; distribution: Chongqing).
- Polyphagotarsonemus latus*: Li, 1985. *Integrated Control in Agricultural Cultivation*, (2): 28 (Morphology, damage habitat, development and reproduction).
- Polyphagotarsonemus latus*: Li *et al.*, 1985. *Acta Entomologica Sinica*, 28(2): 18 (Temperature effect, humidity, thermal death point and distribution).
- Polyphagotarsonemus latus*: Meng *et al.*, 1985. *Control for Vegetable Disease and Insect Pests*. Beijing Press, Beijing: 126 (Host, injury, morphology, habits, occurrence and control methods).
- Polyphagotarsonemus latus*: Yang, 1985. *Teach Yourself Agricultural Entomology*. Agricultural Press, Beijing: 103 (Host, habits, control).

- Polyphagotarsonemus latus*: Zhou, 1985. *Integrated Control in Agricultural Cultivation*, (2): 57 (Host and distribution).
- Polyphagotarsonemus latus*: GSPPCAHFM, 1986. *Prediction Method of China Tea Tree Diseases and Insect Pests*. Anhui Science and Technology Press: 89 (Distribution, occurrence and its prediction methods).
- Polyphagotarsonemus latus*: IPPSAAS, DPPSAC, ESPPSP, 1986. *Checklist of Agricultural Insect Pests and Natural Enemies in Sichuan*. Sichuan Science and Technology Press: 124 (Listed; predator: *Amblyseius nicholsi* Ehara & Lee).
- Polyphagotarsonemus latus*: Li & Li, 1986. *Acta Entomologica Sinica*, 29(1): 41 (Host: tea, hot pepper and eggplant; population fluctuation).
- Polyphagotarsonemus latus*: Lo, 1986. *Plant Protection Bulletin*, 28: 35 (Host).
- Polyphagotarsonemus latus*: Lu *et al.*, 1986. *Sichuan Agricultural Science and Technology*, (2): 2 (Population fluctuation, control).
- Polyphagotarsonemus latus*: Wang, 1986. *Integrated Control in Agricultural Cultivation*, (3): 7 (Biological control).
- Polyphagotarsonemus latus*: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 56 (Morphology, distribution and host).
- Polyphagotarsonemus latus*: Yi *et al.*, 1986. *Control of Diseases and Insect Pests in Vegetable and Edible Fungi*. Chongqing Press, Chongqing: 38 (Host, morphology, occurrence, damage and control method).
- Polyphagotarsonemus latus*: Chen, 1987. In: Zhejiang Agricultural University (ed.) *Agricultural Entomology*. Shanghai Science and Technology Press, Shanghai: 223 (Listed).
- Polyphagotarsonemus latus*: Huang, 1987. *Guangdong Agricultural Science*,(4): 30 (Occurrence, injury, biology, host tolerance to mites and chemical control).
- Polyphagotarsonemus latus*: Huang, 1988. *Illustrations of Insect Pests on Vegetables*. Popular Science Press, Guangzhou: 26 (Damage symptom, morphology, life habits and control methods).
- Polyphagotarsonemus latus*: IPPSAAS, FCEAS, & CIAS, 1988. *Control of Vegetable Diseases and Insect Pests*. Sichuan Science and Technology Press, Chengdu: 50 (Damage, identification, damage symptoms and control methods).
- Tarsonemus translucens*: Jiang & Tan, 1988. *Sichuan Journal of Agricultural Sciences*, 3(1): 4 (Listed).
- Polyphagotarsonemus latus*: Jiang & Tan, 1988. *Sichuan Journal of Agricultural Sciences*, 3(1): 4 (Listed).
- Polyphagotarsonemus latus*: Li & Li, 1988. *Acarology*. Chongqing Press., Chongqing: 94 (Distribution, host, biology and morphology).

- Polyphagotarsonemus latus*: Wang, 1988. *Guizhou Agricultural Science*, (3): 41 (Occurrence, control).
- Polyphagotarsonemus latus*: Wu *et al.*, 1988. *Control of Vegetable Diseases, Insect Pests and Weeds*. Agricultural Press, Beijing: 118 (Injury, habits, morphology and control methods).
- Polyphagotarsonemus latus*: Xin, 1988. *Applied Acarology*. Fudan University Press, Shanghai: 48 (Morphology and host).
- Polyphagotarsonemus latus*: Yao, 1988. *A Manual for Control of Vegetable Diseases and Insect Pests*. Shanghai Science and Technology Press, Shanghai: 125 (Host, morphology, occurrence, damage and control methods).
- Polyphagotarsonemus latus*: Zhu *et al.*, 1988. *Journal of Jiangsu Agricultural College*, 9(3): 57 (Density dependence).
- Polyphagotarsonemus latus*: Zhu *et al.*, 1988. *Journal of Southwest Agricultural University*, 10(2): 139 (Listed).
- Polyphagotarsonemus latus*: Chen *et al.*, 1989. *Journal of Huabei Agronomy*, 4(1): 96 (Spatial pattern of distribution and sampling).
- Polyphagotarsonemus latus*: Feng, 1989. *Control for Family Floricultural Diseases and Insect Pests*. China Forestry Press, Beijing: 80 (Morphology, ecology and injury).
- Polyphagotarsonemus latus*: Huang & Fan, 1989. *A Manual for Control of Vegetable Diseases, Insect Pests and Weeds*. China Agricultural Press, Beijing: 124 (Injury symptoms, morphology, occurrence and control methods).
- Polyphagotarsonemus latus*: Chen *et al.*, 1990. *Questions and Answers on Killing Vegetable Diseases*. Liaoning Science and Technology Press: 165 (Injury and control).
- Polyphagotarsonemus latus*: ISGPPCAM, 1990. *Practical New Technology in Plant Protection*. Agricultural Press, Beijing: 165 (Chemical control).
- Polyphagotarsonemus latus*: Li, 1990. *Scientia Agricultura Sinica*, 23(1): 26 (Distribution, review of its biology and ecology).
- Polyphagotarsonemus latus*: Liu, 1990. *Journal of Southwest Agricultural University*, 12(2): 206 (Distribution pattern and sampling).
- Polyphagotarsonemus latus*: Peng, 1990. *Plant Protection*, 16(6): 12 (Plant resistance, population fluctuation and injury).
- Polyphagotarsonemus latus*: SGS, 1990. *The Garden Phytophylacica* (Part of Insect, 2nd edition). Chinese Forestry Press, Beijing: 435 (Host, distribution, morphology, life cycle, habitat and control method).
- Polyphagotarsonemus latus*: Wang, 1990. *Control of Vegetable Diseases and Insect*

- Pests*. Science and Technology Literature Press, Chongqing Branch Service: 80 (Brief diagnosis, biology, damage and control method).
- Polyphagotarsonemus latus*: Wang, 1990. *Controlling Vegetable Diseases and Insect Pests and Preventing Weeds*. Agricultural Press, Beijing: 169 (Host, damage, morphology, life habitat and control methods).
- Polyphagotarsonemus latus*: Yi *et al.*, 1990. *Control of Vegetables Disease and Insect Pests in Protected Grounds*. Agricultural Press, Beijing: 119 (Host, damage, morphology, life habits and control methods).
- Hemitarsonemus latus*: Zhang & Lin, 1990. *Journal of Fujian Academy of Agricultural Science*, 5(1): 54 (Listed, host and distribution).
- Polyphagotarsonemus latus*: Zhang *et al.*, 1990. *Journal of South China Agricultural University*, 11(4): 17 (Damage, population dynamics, chemical control).
- Polyphagotarsonemus latus*: Chen, 1991. *Chemical World (Taiwan)*, (2): 94 (Injury).
- Polyphagotarsonemus latus*: Ho, 1991. *Journal of Agricultural Research of China*, 40(4): 439 (Life history, host: lemon, tea and pepper; habitat).
- Polyphagotarsonemus latus*: Huang, 1991. *Guangxi Agricultural Science*, (3):128 (Occurrence and control).
- Polyphagotarsonemus latus*: Jiang, 1991. *Vegetable Disease and Insect Pest Control in Ground*. Liaoning Science and Technology Press: 24 (Host, morphology, injury and control methods).
- Polyphagotarsonemus latus*: Lei *et al.*, 1991. *Southwest China Journal of Agricultural Sciences*, 4(3): 86 (Population density; host: eggplant, asparagus bean, pepper; vertical distribution).
- Polyphagotarsonemus latus*: Liu & Wu, 1991. *Guizhou Tea*, (3): 19 (Spatial pattern).
- Polyphagotarsonemus latus*: Liu *et al.*, 1991. *Plant Protection Bulletin*, Taipei, 33(4): 344 (Host: tea, citrus, sweet pepper, egg plant, datura, pepper, gerbera, hydroponic melons, pak-choi, tomato, celery, beans, pear, guava; injury and control).
- Polyphagotarsonemus latus*: Ni *et al.*, 1991. *Control for Vegetable Diseases and Insect Pests*. Anwei Science and Technology Press, Hefei: 106 (Host, damage, morphology, occurrence and control methods).
- Polyphagotarsonemus latus*: Qian, 1991. *Taizhou Science and Technology*, (1): 16 (Occurrence and injury).
- Polyphagotarsonemus latus*: Zeng, 1991. *China Citrus (Zhongguo Ganju)*, 20(2): 26 (Morphology, symptoms, habit, population fluctuation and control methods).
- Polyphagotarsonemus latus*: Zhan, 1991. *China Vegetables*, (2): 45 (Control).
- Polyphagotarsonemus latus*: Chen, 1992. *Control of Tea Tree Diseases and Insect Pests*. Meteorology Press, Beijing: 101 (Distribution, life habit and control).

- Polyphagotarsonemus latus*: Chen, 1992. *New Technologies for Control of Citrus Diseases, Insect Pests and Weeds*. Agricultural Press, Beijing: 139 (Morphology and control).
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- Polyphagotarsonemus latus*: ESPPSP & PPSSP, 1992. *A Manual for Plant Protection Practitioners*. Sichuan Science and Technology Press, Chengdu: 179 (Distribution, damage, identification, occurrence, forecast of occurrence and control).
- Polyphagotarsonemus latus*: IFTOISAA, 1992. *Disease and Pest Fauna of Fruit Tree in China*. Agricultural Press. Beijing: 539 (Morphology, life cycle, habit, host and control).
- Polyphagotarsonemus latus*: Lei et al., 1992. *Journal of Huazhong Agricultural University*, 11(4): 401 (Host: *Solanum melongena* L., *S. tuberosum* L., *S. nigrum* L., *S. indicum* L., *Capsicum annuum* L., *Lycopersicon esculentum* Mill., *Nicotiana tabacum* L., *Physalis angulata* L., *Nicandra physaloides* (L.) Gaerth., *Datura metel* var. *fastuosa* L., *D. Stramonium* L., *D. stramonium* var. *tatula* L., *Cucumis sativus* L., *C. melo* L., *Citrullus vulgaris* Schrad., *Momordica charantia* L., *Luffa cylindrica* (L.) Roem., *Raphanus sativus* L., *Nasturtium officinale* R. Br., *Brassica chinensis* L., *Phaseolus vulgaris* L., *Vigna sinensis* (L.) Savi., *Glycinemax* (L.) Merr., *Arachis hypogaea* L., *Albizia julibrissin* Durazz., *Dolichos lablab* L., *Apium graveolens* L., *Camellia sinensis* Kuntze., *Gossypium hirsutum* L., *Sesamum indicum* L., *Corchorus capsularis* L., *Citrus reticulata* Blanco, *Pyrus bretschneideri* Rend., *Prunus persica* (L.) Batsch, *Castanea mollissima* BL, *Morus alba* L., *Ficus elastica* Roxb., *Ricinus communis* L., *Acalypha australis* L., *Vlmus pumila* L., *Chrysanthemum sinense* var. *vestitum* Hemsl., *Gerbera anandria* (L.) Sch. Bip., *Zinnia elegans* Jacq., *Siegesbeckia orientalis* L., *Bidens pilosa* L., *Eclipta alba* (L.) Hassk., *Xanathium sibiricum* Patr., *Erigeron canadensis* L., *Amaranthus blitum* L., *A. spinosus* L., *Alternanthera philoxeroides* (Mart) Griseb., *Celosia cristata* L., *Impatiens balsamina* L., *Begonia evansiana* Andr., *Consolida ajacis* (L.) Schur., *Verbena officinalis* L., *Ligustrum lucidum* Ait., *Plantago asiatica* L., *Rumex japonicus* Hoult., *Stachys oblongifolia* Benth., *Mazus stachydifolius* (Turcz.) Maxim., *Veronica didyma* Tenure, *Calystegia hederacea* Wall; distribution: Wuhan city, Hubei).
- Polyphagotarsonemus latus*: Luo, 1992. *A Manual for Control of Diseases and Insect Pests in Citrus*. Hunan Science and Technology Press, Changsha: 194 (Damage, morphology, occurrence and control).

- Polyphagotarsonemus latus*: Ma & Wang, 1992. In: Chen & Ma, (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).
- Polyphagotarsonemus latus*: Shen, 1992. *Grape Diseases and Insect Pests and Their Control*. China Forestry Press, Beijing: 140 (Distribution: Beijing, Tianjing, Hunan, Hubei, Guizhou, Sichuan, Jiangsu, Zhejiang, Guangdong, Taiwan, and Xinjiang; Host: grape, citrus, peach, pear, mango, chinese chesnut; morphology; life habits, and control).
- Polyphagotarsonemus latus*: Shi & Liu, 1992. *Insect Pests on Fruit Trees and Their Control*. Sichuan Science and Technology Press, Chengdu: 209 (Host: grape; distribution: Sichuan).
- Polyphagotarsonemus latus*: Xia *et al.*, 1992. *The Garden Phytophylacica in China*. Jiangsu Science and Technology Press, Nanjing: 343 (Distribution, host, morphology and control methods).
- Polyphagotarsonemus latus*: Xie *et al.*, 1992. *Chinese Journal of Biological Control*, 8(1): 29 (Host: pepper; green house pest, microbial control with Liutangmycin).
- Polyphagotarsonemus latus*: Zeng & Liu, 1992. *Yangtz River Vegetables*, (2): 24 (Control).
- Polyphagotarsonemus latus*: Fan, 1993. *A Compendium for Crop Doctors*. Henan Science and Technology Press: 722 (Morphological identification, occurrence and control method).
- Polyphagotarsonemus latus*: Li & Fen, 1993. *New Technologies for Control of Cucumber Diseases and Insect Pests*. Jindun Press, Beijing: 63 (Damage, morphology, life habit, occurrence and control).
- Polyphagotarsonemus latus*: Lin & Zhang, 1993. In: Chao (ed.) *Bulletin of Scientific Investigation in Wuyishan Natural Reserve*. Fujian Science and Technology Press, Fuzhou: 624 (Distribution).
- Polyphagotarsonemus latus*: Lu *et al.*, 1993. *Atlas of Insect Pests and Disease of Vegetable Crops in China*. Agricultural Press, Beijing: 220 (Host, injury, life habitat, morphology and control).
- Polyphagotarsonemus latus*: Ma, 1993. *Jiangxi Citrus Science and Technology*, (1): 18 (Morphology, injury, population fluctuation and control).
- Polyphagotarsonemus latus*: Qi *et al.*, 1993. *Entomological Journal of East China*, 2(2): 33 (Distribution and damage).
- Hemitarsonemus latus*: Qi *et al.*, 1993. *Entomological Journal of East China*, 2(2): 33 (Distribution and damage).
- Polyphagotarsonemus latus*: Zeng, 1993. *China Vegetables*, (3): 25 (Using *Melia azedarach* for controlling yellow mite).

- Polyphagotarsonemus latus*: Zeng & Li, 1993. *Compilation of Practical Technologies for Plant Protection*. Popular Science Press, Beijing: 512 (Damage, morphology, occurrence, survey methods and control).
- Polyphagotarsonemus latus*: GSPPCAM, 1994. *A Manual for Plant Doctor*. Chemical Industry Press, Beijing: 367 (Damage, occurrence and control).
- Polyphagotarsonemus latus*: Hao, 1994. *Cucumber Cultivation Techniques in Four Seasons*. Science and Technology Literature Press: 486 (Distribution, injury, ecology, biology and control methods).
- Polyphagotarsonemus latus*: Hu, 1994. *Plant Diseases and Insect Pests of Berry and its Control in China*. China Agricultural Press, Beijing: 62 (Host, morphology, biology, injury and control).
- Polyphagotarsonemus latus*: Lei & Zhu, 1994. *Agricultural Resource Science & Technology*, (2): 21 (Chemical control).
- Polyphagotarsonemus latus*: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 525 (Host: tea, pepper; distribution: Emei Mountain, Chengdu, Sichuan province).
- Polyphagotarsonemus latus*: Liu *et al.*, 1994. *Scientia Agricultura Sinica*, 27(6): 86 (Resistance of tea varieties and mechanism).
- Polyphagotarsonemus latus*: Wang, 1994. *Original Colour Atlas of Diseases and Insect Pests*. Shandong Science and Technology Press, Jinan: 166 (Injury, morphology, occurrence and control).
- Polyphagotarsonemus latus*: Wei & Feng, 1994. *Guangxi Plant Protection*, (3): 34 (Occurrence and control).
- Polyphagotarsonemus latus*: Xu *et al.*, 1994. *Yangtze River Vegetable*, (2): 16 (Rearing and biological observation).
- Polyphagotarsonemus latus*: Ye, 1994. *Yangtze River Vegetable*, (3): 18 (Host: pepper; chemical control).
- Polyphagotarsonemus latus*: Zhao *et al.*, 1994. *A Manual for Controlling Plant Diseases and Insect Pests in Garden Grove*. Agricultural Press, Beijing: 182 (Hosts, morphology, injury, ecology, sampling methods and control methods).
- Polyphagotarsonemus latus*: Zhu *et al.*, 1994. *A Manual for Controlling Fruit Tree Disease and Insect Pests in South China*. Agricultural Press, Beijing: 69 (Host, morphology, biology, ecology and control).
- Polyphagotarsonemus latus*: Bai *et al.*, 1995. *High Yield and Good Quality Cultivation of Eggplant and Pepper in Large Shed of Greenhouses*. Liaoning Science and Technology Press: 60 (Morphology, life habits and control methods).
- Polyphagotarsonemus latus*: Li & Lin, 1995. *New Control Technique for Pepper and*

- Eggplant Diseases and Insect Pests*. Jindun Press, Beijing: 56 (Morphology, life habits and control measures).
- Polyphagotarsonemus latus*: Ren, 1995. *Sichuan Agricultural Science & Technology*, (3): 24 (*Population fluctuation and control*).
- Polyphagotarsonemus latus*: Li & Cheng, 1997. *Plant Doctor*, (2): 14 (Damage and control).
- Polyphagotarsonemus latus*: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: pepper, tea, eggplant, orange, tomato, potato, bean, peanut, maple, pumpkin, jute and many flowers, distribution: Fujian).
- Polyphagotarsonemus latus*: Liu *et al.*, 1995. *A Manual for Control of Vegetable Diseases, Insect Pests and Weeds*. China Agricultural Press, Beijing: 168 (Distribution, damage, morphology, biology and control).
- Polyphagotarsonemus latus*: Liu & Liu, 1995. *Hunan Agricultural Science*, (4): 38 (Injury and control).
- Polyphagotarsonemus latus*: Long & Tian, 1995. *Journal of Hunan Agricultural University*, 21(5): 483 (Host, occurrence and chemical control).
- Polyphagotarsonemus latus*: Lu & Zhang, 1995. In: IPPCAAS (ed.) *Crop Diseases and Insect Pests in China*. China Agricultural Press, (second edition) Beijing: 1262. (Damage, morphology, life habits, occurrence and control).
- Polyphagotarsonemus latus*: Shen, 1995. *Techniques for Cultivating Vegetables with High Yield in Shed*. Jiangsu Science and Technology Press, Nanjing: 247 (Injury and control measures).
- Polyphagotarsonemus latus*: Yan & Wu, 1995. *Sichuan Agricultural Science & Technology*, (4): 18 (Control).
- Polyphagotarsonemus latus*: Yu *et al.*, 1995. *The Tomato, Pepper, Eggplant Cultivation Techniques with High Quality and Efficiency*. Jiangsu Sciences and Technology Press, Nanjing: 114 (Injury, morphology, ecology and control methods).
- Polyphagotarsonemus latus*: Yu & Yang, 1995. *One Hundred and Fifty Questions in Celery Production*. China Agricultural Press, Beijing: 162 (Damage and control methods).
- Polyphagotarsonemus latus*: Zhang *et al.*, 1995. *Diseases and Insect Pests of Tea Tree*. Agricultural Press, Beijing: 307 (Morphology, habitat, distribution and control methods).
- Polyphagotarsonemus latus*: Chen, 1996. In: IPPCAAS (ed.) *Crop Diseases and Insect Pests in China*. (second volume), China Agricultural Press, Beijing: 232 (Morphology, occurrence and control).
- Polyphagotarsonemus latus*: Chen, 1996. *Guizhou Tea*, (4): 36 (Damage and control).

- Polyphagotarsonemus latus*: Dai, 1996. *Guizhou Tea*, (4): 20 (Chemical control).
- Polyphagotarsonemus latus*: Li, 1996. *Vegetable*, 84(6): 22 (Morphology, habitat and control).
- Polyphagotarsonemus latus*: Li & Chen, 1996. *Yangtze River Vegetable*, (3): 12 (Host: eggplant, cowpea, soybean, tomato, cucumber; distribution: Anhui).
- Polyphagotarsonemus latus*: Liang, 1996. *Practical Colour Atlas of Vegetable Diseases and Insect Pests*. Henan Science and Technology Press, Beijing: 214 (Injury, morphology, life habits and control methods).
- Polyphagotarsonemus latus*: Liu *et al.*, 1996. *Acta Phytolacica Sinica*, 23(2): 143 (Population dynamics in different tea varieties).
- Polyphagotarsonemus latus*: Ren, 1996. *A Manual for Control of Citrus Diseases and Insect Pests* (second edition). Jindun Press, Beijing: 64 (Distribution, damage, morphology, occurrence and control).
- Polyphagotarsonemus latus*: Sun, 1996. *Tea Science & Technology*, (4): 1 (Listed).
- Polyphagotarsonemus latus*: Wu & Tao, 1996. *New Agriculture*, (1): 22 (Host and injury).
- Polyphagotarsonemus latus*: Xu, 1996. *Ningbo Agricultural Science and Technology*, (2): 23 (Identification and control).
- Polyphagotarsonemus latus*: Yang *et al.*, 1996. *New Technique for Melon Cultivation in Daynight Greenhouses*. China Agricultural University Press, Beijing: 182 (Morphology, biology and control methods).
- Polyphagotarsonemus latus*: Yin, 1996. Tarsonemid mite in tea. In: IPPCAAS (ed.) *Crop Diseases and Insect Pests in China*. (second volume), China Agricultural Press, Beijing: 449 (Distribution, damage, morphology, life habits, occurrence and control).
- Polyphagotarsonemus latus*: Fan & Jiang, 1997. *A Collection of Illustrative Plates on Controlling Vegetable Diseases and Insect Pests in Shed*. Liaoning Science and Technology Press, Shenyang: 225 (Injury, morphology, life habits, control measures, host and distribution).
- Polyphagotarsonemus latus*: Fan *et al.*, 1997. *New Techniques of Cucumber Cultivation with High Yield*. China Agricultural University Press, Beijing: 118 (Morphology, life habits, injury and control methods).
- Polyphagotarsonemus latus*: Fan *et al.*, 1997. *Integrated Control for Vegetable Diseases, Insect Pests and Weeds*. China Agricultural Press, Beijing: 276 (Habits and control).
- Polyphagotarsonemus latus*: Yu & Gao, 1997. *Journal Zhejiang Agricultural University*, 23(3): 355 (Natural enemy).

- Polyphagotarsonemus latus*: Zhang, 1997. *Sichuan Agricultural Science & Technology*, (3): 16 (Occurrence and control).
- Polyphagotarsonemus latus*: Zhong & Zeng, 1997. *Jiangxi Agricultural Science & Technology*, (2): 40 (Host, spatial distribution).
- Polyphagotarsonemus latus*: Zhou, 1997. *Entomological Knowledge*, 34(3): 146 (Injury; biology; chemical control; host: pepper; distribution:Hunan).
- Polyphagotarsonemus latus*: Ong *et al.*, 1998. *Control Techniques for 248 Vegetable Diseases and Insect Pests*. China Agricultural Press, Beijing: 181 (Injury, morphology, habits and control).
- Polyphagotarsonemus latus*: Xu *et al.*, 1998. *Control of Diseases and Insect Pests in Floriculture* (revised edition). Jindun Press, Beijing: 195 (Injury, host, morphology, habits, symptom of damage, control).

Genus *Pseudotarsonemoides* Vitzthum

***scolyti* Smiley & Moser**

- Pseudotarsonemoides scolyti*: Lin *et al.*, 1995. *Acta Zootaxonomica Sinica* 20: 188 (New record in China: Hebei, host: *Scolytus* sp.).

Tribe Tarsonemellini Lindquist

- Tarsonemellini: Ho, 1994. *International Journal of Acarology*, 20(3): 197 (Revised diagnosis).

Genus *Ficotarsonemus* Ho

- Ficotarsonemus*: Ho, 1994. *International Journal of Acarology*, 20(3): 189 (Diagnosis, key to species, list of type species).

***protabilis* Ho**

- Ficotarsonemus protabilis* Ho, 1994. *International Journal of Acarology*, 20(3): 193 (Diagnosis: female and male description; holotype male, allotype female, 8 female, 5 male, and 10 physogastric female paratypes collected on *Ficus*

ampelas Burm, 6 XI 1993 (J. Y. Wong), at Fonggu, Wufeng, Taichung County, Taiwan; 1 male, 1 female and 1 physogastric female paratype each deposited in CNCIA, Ottawa and other types in DAZTARI, Taiwan).

wongi Ho

Ficotarsonemus wongi Ho, 1994. *International Journal of Acarology*, 20(3):190 (Diagnosis, female and male description; holotype male, allotype female, 10 physogastric females and 6 male paratypes collected on *Ficus virgatar* Reinw. ex Blume; 12 VIII 1993 (W. H. Chen), at Chipen, Taitung County, Taiwan. 1 male and 1 physogastric female paratype each deposited in CNCIA; holotype, allotype and other paratypes deposited in DAZTARI).

Subfamily Acarapinae Schaarschmidt

Acarapinae: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed)

Tribe Acarapini Schaarschmidt

Acarapini: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

Genus Acarapis Hirst

Acarapis: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 22 (Economic importance).

externus Morgenthaler

Acarapis externus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: honey bee; distribution: Fujian).

***woodi* Rennie**

Acarapis woodi: Fan, 1964. *China Apiculture*: 171 (Acariasis).

Acarapis woodi: Zhang, 1964. *China Apiculture*: 172 (Morphology and methods for examination).

Acarapis woodi: Huang, 1996. *China Apiculture*, 4:15 (Control by oil from *Azadirachta indica*).

Subfamily Tarsoneminae Canestrini & Fanzago

Tarsoneminae: Lin, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed)

Tribe Tarsonemini Canestrini & Fanzago

Tarsonemini: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

Genus *Daidalotarsonemus* DeLeon

Daidalotarsonemus: Lin & Liu, 1994. *Journal of Fujian Academy of Agricultural Sciences*, 9(2): 62 (Listed).

Daidalotarsonemus: Lin & Liu, 1995. *Acta Zootaxonomica Sinica*, 20(3): 309 (Brief review).

Daidalotarsonemus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Listed).

***biovatus* Lin & Liu (Fig. 1)**

Daidalotarsonemus biovatus Lin & Liu, 1995. *Acta Zootaxonomica Sinica*, 20(3): 309 (Description; holotype female, 24 X 1989, off bamboo, *Phyllostachys pubescens* Mazel, Shanghang county; 1 paratype female 19 X. 1989, off fern, *Tectaria subtriphyllo* (Hook & Arn) in Liancheng county; 1 paratype female, 14 X 1990 off tea *Camellia sinensis* (L.) in Wuyi mountain; types: IPPFAAS).

Daidalotarsonemus biovatus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: bamboo, tea, fern; distribution: Shanghang county, Lianchen county, Wuyi Mountain).

***cornutus* Lin, Chen & Zhang**

Daidalotarsonemus cornutus Lin *et al.*, 1998. *Systematic & Applied Acarology*, 3:139 (Host: bark of persimmon tree and mosses; locality: Dehua and Zhangpin city, Fujian province; Types: IPPFAAS)

***digital* Lin, Chen & Zhang**

Daidalotarsonemus digital Lin *et al.*, 1998. *Systematic & Applied Acarology*, 3: 137 (Host: mosses on the trunk base of a tree *Sabina chinese* (L.); locality: Zhangpin city, Fujian province; types: IPPFAAS.)

***duolamella* Lin, Chen & Zhang**

Daidalotarsonemus duolamella: Lin *et al.*, 1998. *Systematic & Applied Acarology*, 3: 141 (Host: tea tree; female description; locality: Jiangle city, Fujian province; types: IPPFAAS.)

***euonymus* Yang, Ding & Zhou (Fig. 2)**

Daidalotarsonemus euonymus: Yang *et al.*, 1987. *Entomotaxonomia*, 9(2): 160 (Female description, holotype: female, Shanghai, 14 X 1981; on *Euonymus alatus* (Thuni) Sieb; types: in DBFU, Shanghai, China)

Daidalotarsonemus euonymus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Daidalotarsonemus euonymus: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16: 525 (Listed, host: *Orzya sativa*, distribution: Chengdu, Sichuan).

hexagonus Yang, Ding & Zhou (Fig. 3)

Daidalotarsonemus hexagonus Yang, et al., 1987. *Entomotaxonomia*, 9(2): 157 (Female description, holotype female, Shanghai, 19 X 1981, on *Serissa serisoides* (DC) Druce; types: in DBFU, Shanghai, China).

Daidalotarsonemus hexagonus: Ma & Wang, 1992. In Chen & Ma, (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

notoschism Lin & Liu (Fig. 4)

Daidalotarsonemus notoschism Lin & Liu, 1994. *Journal of Fujian Academy of Agricultural Sciences*, 9(2): 62 (Holotype female, 27 X 1989, J.-Z. Lin, ex. *Capillipedium parviflorum*, Shanghang, Fujian, China; types: IPPFAAS; 6 figures).

Daidalotarsonemus notoschism: Lin et al., 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: *Capillipedium parviflorum* (R.Br.) Stapf; distribution: Shanghang county, Fujian province).

serissae Yang, Ding & Zhou (Fig. 5)

Daidalotarsonemus serissae Yang et al., 1987. *Entomotaxonomia*, 9(2): 159 (Female description, holotype female, Shanghai, 29 X 1981; on *Serissa serisoides* (DC) Druce; types in DBFU, Shanghai, China).

Daidalotarsonemus serissae: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Genus *Fungitarsonemus* Cromroy

Fungitarsonemus: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 126 (Genotype and diagnosis).

Fungitarsonemus: Lin & Liu, 1994. *Entomological Journal of East China*, 3(1): 13 (Brief review, diagnosis and distribution).

Fungitarsonemus: Lin et al., 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

acus Lin & Zhang (Fig. 6)

Fungitarsonemus acus Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 526 (Female description; holotype female, 4 paratype females, 12 X 1993, from *Lithocarpus synbalanus* (Hance) Chun; 2 paratype females, 12 X 1993, from *Cibotium barometz* (L.) J. Sm in Emei Mountain; types: IPPFAAS).

borinquensis Cromroy

Fungitarsonemus borinquensis: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 126 (Male and female description, host and locality).

Fungitarsonemus borquensis: Ma & Wang, 1992. In Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed)

Fungitarsonemus boriguensis: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: bamboo; distribution: Liancheng county, Jianyan city, Fujian province).

lodici (DeLeon)

Fungitarsonemus lodici: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: tea, bamboo, and many trees; distribution: Fujian).

subtepidariorum Lin & Liu (Fig. 7)

Fungitarsonemus subtepidariorum Lin & Liu, 1994. *Entomological Journal of East China*, 3(1): 13 (Male description; holotype male, 7 XI 1989, Meihuashan Natural Reserve (Dagaoxie, Longyan County in Fujian province), ex *Armenica mume* Sieb & Zucc; paratypes: 2 males, same data as holotype; 1 male, same date and location as holotype, ex *Camellia sinensis* (L.) O. Ktzc; 1 male, 1 XI 1989, Mawu, Shanghang County, ex tea; 1 male, 18 X 1989, Jinjiling, Liancheng County, ex the dicotyledonous plant Urticaceae, 3 males, 3 X 1989, Taipingliao, Liancheng County, ex *Eurya muricata* Dum; types: IPPFAAS).

Fungitarsonemus subtepidariorum: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: *Armenica mume*, *Camellia sinensis* (L.) O. Ktzc, *Eurya muricata* Dum; distribution: Fujian).

Genus *Iponemus* Lindquist***asiaticus* Lindquist**

Iponemus asiaticus Lindquist, 1969. *Memoirs of the Entomological society of Canada*, 60: 24 (Female description, paratype: 11 females, Hsingan Province, 24 VIII 1923 (E. C. Van Dyke), elytral declivity of *Ips cembrae* (Heer) in *Larix*. Types: CNC, BMNH, USNM).

Iponemus asiaticus: Lin & Zhang, 1989. *Acta Zootaxonomica Sinica*, 14(1): 42 (Listed).

Iponemus asiaticus: Ma & Wang, 1992. In: Chen & Ma, (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***leionotum* Lindquist**

Iponemus leionotum Lindquist, 1969. *Memoirs of the Entomological Society of Canada*, 60: 23 (Female description, holotype female, Chalantun, in the Ta Khingan Shan (Greater Khingan Mts.), Hsingan Province, China, 25 V 1939 (M. A. Weymann) from elytral declivity of *Ips sexdentatus* Boern; types: CNC; paratypes: BMNH; USNM).

Iponemus leionotum: Lin & Zhang, 1989. *Acta Zootaxonomica Sinica*, 14(1): 42 (Listed).

Iponemus leionotum: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*, Chongqing Press, Chongqing: 36 (Listed).

Genus *Neotarsonemoides* Kaliszewski

Neotarsonemoides: Lin & Zhang, 1996. *Systematic & Applied Acarology*, 1: 173 (Brief review).

***triquetrus* Lin & Zhang**

Neotarsonemoides triquetrus: Lin & Zhang, 1996. *Systematic & Applied Acarology*, 1: 173 (Female description; host: pine needles of *Cedrus deodara* (Roxb.) and weeds; locality: Shanghai city, Jiangsu province; types: IPPFAAS).

Genus *Rhynchotarsonemus* Beer

Rhynchotarsonemus: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Listed).

Rhynchotarsonemus: Lin & Zhang, 1985. *Crop and Cultivation*, (1): 51 (Listed).

sp.

Rhynchotarsonemus sp: Lin & Zhang, 1985. *Crop and Cultivation*, (1): 51 (Listed).

Rhynchotarsonemus sp: Zhang & Lin, 1990. *Journal of Fujian Academy of Agricultural Sciences*, 5(1): 54 (Host: wheat, rice; distribution: Fujian).

Genus *Tarsonemus* Canestrini & Fanzago

Cheylotarsonemus Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 125 (Diagnosis and genotype).

Tarsonemus: Tseng & Lo, 1980. *Plant Protection Bulletin, Taiwan*, 22: 115 (Synonymy, genotype and diagnosis).

Tarsonemus: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Listed).

Tarsonemus: Su & Ding, 1984. In: Jiangxi University (ed.) *Chinese Agricultural Acari*, Shanghai Science and Technology Press, Shanghai: 249 (Diagnosis).

Tarsonemus: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 22 (Listed).

Tarsonemus: Lin & Zhang, 1985. *Crop and Cultivation*, (11): 51 (Listed).

Cheylotarsonemus: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 333 (Synonymy)

Tarsonemus: Lin & Zhang, 1995. *Wuyi Science Journal*, 12: 114 (Listed).

Lupotarsonemus: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Listed).

Lupotarsonemus: Ding, 1985. *Integrated control in Agricultural Cultivation*, (2): 22 (Listed).

Lupotarsonemus: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 57 (Diagnosis).

Tarsonemoides: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Listed).

Tarsonemoides: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 22 (Listed).

***bambusae* Yin, Bei, Liu, Yu, Shi & Yang (Fig. 8)**

Tarsonemus bambusae Yin et al., 1998. *Journal of Shenyang Agricultural University*, 29(1): 21 (Holotype female & 3 paratype females, H.-X. Yu, ex bamboo in Yuhang, Zhejiang; types in DPPSAU).

***bilobatus* Suski**

Tarsonemus bilobatus: Piao, 1990. *Japanese Journal of Sanitary Zoology*, 41(1): 3 (Host: *Portulaca oleracea* L.).

Tarsonemus bilobatus: Lin et al., 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: rice, sugarcane, co-ba, wheat, soil, eggplant, pumpkin, orange, jasmine, taro, bean, pine and others; distribution: Fujian).

***brevicorpus* Lin nom. nov. (Fig. 9)**

Cheylotarsonemus minutus Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 125 (Female description; holotype, female, Hsinsu, Tainan Hsien, ex rice leaf sheath, 5 V 1977 (Y. H. Tseng); paratype, female, the same as for holotype; types: in TBOBCIQMEA).

Cheylotarsonemus minutus: Tseng, 1984. In: Griffiths & Bowman (ed.) *Acarology VI*. Ellis Horwood, Chichester, UK. Vol. 2: 273 (Listed).

Cheylotarsonemus minutus: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 342 (Listed).

Cheylotarsonemus minutus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Notes: *Cheylotarsonemus minutus* Tseng & Lo, 1980 is preoccupied by *Lupotarsonemus minutus* Attiah, 1970, both now in *Tarsonemus* (Lindquist 1986). As they are different species, the former is a junior homonym of the later and must be replaced. *Tarsonemus brevicorpus* Lin is here proposed as a new name for *minutus* Tseng & Lo; this species is small, hence *brevi* (=short) and *corpus* (=body).

***changbaiensis* Yin, Bei, Liu & Tong (Fig. 10)**

Tarsonemus changbaiensis Yin *et al.*, 1996. *Journal of Shenyang Agricultural University*, 27(3): 200 (Female description; habitat: soil; locality: Changbai mountain; types: DPPSAU).

***confusus* Ewing**

Tarsonemus confusus: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keys to species).

Tarsonemus confusus: Su & Ding, 1984. In Jiangxi University (ed.) *Chinese Agricultural Acari*, Shanghai Science and Technology Press, Shanghai: 250 (Morphology; distribution; host).

Tarsonemus confusus: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 27 (Female description and host).

Tarsonemus confusus: Zeng, *et al.*, 1989. *Journal of Fujian Academy of Agricultural Sciences*, 4(2): 85 (Host and distribution).

Tarsonemus confusus: Lin & Zhang, 1993. In: Chao (ed.) *Bulletin of Scientific Investigation in Wuyishan Natural Reserve*. Fujian Science and Technical Press, Fuzhou: 624 (Distribution).

Tarsonemus confusus: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 525 (Host: rice, pea, pumpkin, taro, peach, tea; distribution: Emei Mountain, Chengdu, Sichuan province).

Tarsonemus confusus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: rice, co-ba, strawberry, peach, willow, soil, pumpkin, pine, bamboo, tea, soybean, maple, pear and others; distribution: Fujian).

Tarsonemus confusus: Zeng *et al.*, 1996. *Entomological Journal of East China*, 5(1): 108 (List).

***cornus* Ito**

Tarsonemus cornus: Lin *et al.*, 1996. *Acta Zootaxonomica Sinica*, 21(3): 334 (Host: bark of snow pine *Cedrus deodara* (Roxb.) and humus layer of *Pyrus calleryana* Dcne; distribution: Shanghai, Jiangsu).

***dubius* Delfinado**

Tarsonemus dubius: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: *Perilla frutescens* (L.); distribution: Liancheng, Fujian).

***floricolus* Canestrini & Fanzago**

Tarsonemus floricolus: Tseng, 1978. *Academia Sinica Institute of Zoology Monograph Series*, (3): 232 (Morphology).

Tarsonemus floricolus: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22: 117 (Female description, host and distribution).

Tarsonemus floricolus: Tseng, 1984. In: Griffiths & Bowman (ed.) *Acarology VI*. Ellis Horwood, Chichester, UK. Vol. 2: 273 (Listed; host: rice and weeds).

Tarsonemus floricolus: Yao, 1986. *Pest and Beneficial Insects in Storage Houses*. China Financial and Economic Press, Beijing: 379 (Host: soy sauce, grain, corn; distribution: Taiwan).

Tarsonemus floricolus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***floridanus* (Attiah)**

Lupotarsonemus floridanus: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed).

***fusarii* Cooreman**

Tarsonemus fusarii: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 22 (Development, habitat).

Tarsonemus fusarii: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 526 (Host: rice, bamboo, mosses; distribution: Emei Mountain, Chengdu, Sichuan province).

Tarsonemus fusarii: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: nest, tea, rice, orange, arista; distribution: Liancheng county, Longyan county, Shanghang county, Fujian province).

Tarsonemus fusarii: Yin *et al.*, 1996. *Journal of Shenyang Agricultural University*,

27(3): 202 (Brief description of adult female; host: mosses; distribution: Shenyang city, Changbai mountain).

***fuzhouensis* Lin & Zhang**

- Tarsonemus fuzhouensis* Lin & Zhang, 1982. *Wuyi Science Journal*, 2: 137 (Male and female description, host: rice; locality: Fuzhou; types: IPPFAAS).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Population fluctuation, chemical test; host: rice; distribution: Fuzhou city, Fujian).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1983. *Fuzhou Science and Technology*, (1): 18 (Inoculation, separation and chemical test).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1983. *Jiangxi Agricultural Science and Technology*, (2): 13 (Parasitism rate, inoculation and control).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1984. *Crop and Cultivation*, (1): 50 (Injury; population fluctuation; varieties and climate relationships; control methods).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1985. *Wuyi Science Journal*, 5: 95 (Morphology of each stage).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1985. *Crop and Cultivation*, (1): 51 (Injury).
- Tarsonemus fuzhouensis*: Shan *et al.*, 1985. *Journal of Hunan Agricultural College*, 15(1): 43 (Listed).
- Tarsonemus fuzhouensis*: Zhou & Xia, 1985. *Integrated Control in Agricultural Cultivation*, (2): 13 (Listed, distribution and host).
- Tarsonemus fuzhouensis*: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 343 (Listed).
- Tarsonemus fuzhouensis*: Zhang & Lin, 1989. *Indian Journal of Acarology*, 10: 83 (Natural enemy).
- Tarsonemus fuzhouensis*: Zhang & Lin, 1990. *Journal of Fujian Academy of Agricultural Sciences*, 5(1): 54 (Host: rice, wheat, mushroom; distribution: Fujian).
- Tarsonemus fuzhouensis*: Zhang & Lin, 1991. *Chinese Journal of Biological Control*, 7(4): 163 (Listed).
- Tarsonemus fuzhouensis*: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).
- Tarsonemus fuzhouensis*: Lin & Zhang, 1993. In: Chao (ed.) *Bulletin of Scientific Investigation in Wuyishan Natural Reserve*. Fujian Science and Technology Press, Fuzhou: 624 (Distribution).

Tarsonemus fuzhouensis: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: rice, wheat, mushroom; distribution: Fujian).

***gramineus* Cromroy**

Tarsonemus gramineus: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22: 116 (Male description, host and distribution).

Tarsonemus gramineus: Tseng, 1984. In: Griffiths & Bowman (ed.) *Acarology VI*, Ellis Horwood, Chichester, England. Vol. 2: 273 (Listed; host: rice and weeds).

Tarsonemus gramineus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).

***granarius* Lindquist**

Tarsonemus granarius: Hsu & Li, 1985. *Annual Bulletin of the Society of Parasitology, Guangdong Province*, 7: 203 (Description of adult female and male, mites collected from the urine of nephrotic children).

Tarsonemus granarius: Li & Chen, 1986. *Acta Academiae Medicinae Bengbu*, 11(2): 87 (Host and distribution).

Tarsonemus granarius: Yao, 1986. *Beneficial and Pest Insects in Storage Houses*. China Financial and Economic Press, Beijing: 378 (Host and distribution).

Tarsonemus granarius: Li & Li, 1987. *Acta Academiae Medicinae Wannan*, 6(3): 199 (External morphology, pulmonary acariasis).

Tarsonemus granarius: Xin, 1988. *Applied Acarology*. Fudan University Press, Shanghai: 46 (Morphology)

Tarsonemus granarius: Yu & Xu, 1988. *Common Disease in Humans and Animals in China*. Fujian Science and Technology Press, Fuzhou: 906 (Causing pulmonary and nephric acariasis; distribution).

Tarsonemus granarius: Li & Li, 1990. *Chinese Journal of Parasitology and Parasitic Disease*, 8(1): 41 (Pulmonary acariasis, parasitic, infection; distribution: Anhui, China).

Tarsonemus granarius: Piao, 1990. *Japanese Journal of Sanitary Zoology*, 41(1): 2 (Host: *Asarum heterotropoides* F. Schm. var. *mandshuricum* (Maxim.) Kitag; *Polygonum aviculare* L; *Pulsatilla chinensis* (Bge.) Reg; *Asparagus cochinchinensis* (Lour) Merr; *Viola yedoensis* Mak; *Andrographis paniculata* (Burm. F.) Nees; *Notopterygium incisum* Ting; *Polygala tenuifolia* Willd; *Juncus*

- effusus* L. var. *decipiens* Buchen; *Agrimonia pilosa* Ledeb. var. *japonica* (Miq.) Nakai; *Phyllostachys nigra* (Lodd.) Munro var. *henonis* (Mitf.) Stapf & Rendle).
Tarsonemus granarius: Wen, 1990. In: Liu & Lu, (ed.) *Medical Entomology*. Science Press, Beijing: 477 (Medical record).
Tarsonemus granarius: Li *et al.*, 1992. *Journal of Southwest Agricultural University*, 14(1): 30 (Distribution).
Tarsonemus granarius: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).
Tarsonemus granarius: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 526 (Host: bark of Chinese fir, fall foliage, taro, peach; distribution: Emei Mountain, Chengdu, Sichuan, China).
Tarsonemus granarius: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: sweet potato; distribution: Nanjing county, Fujian, China).
Tarsonemus granarius: Yu *et al.*, 1995. *Chinese Journal of Parasitology and Parasitic Disease*, 13(1): 76 (Pulmonary acariasis, symptom, examination and cure).
Tarsonemus granarius: Li *et al.*, 1996. *Chinese Journal of Parasitology and Parasitic Disease*, 14(1): 63 (Epidemiological survey, main clinical symptoms of internal acariasis and abdominal pain, diarrhoea and pyohemofecia).
Tarsonemus granarius: Li & Fan, 1997. *Systematic & Applied Acarology*, 2: 249 (Listed).

***idaeus* Suski**

- Tarsonemus idaeus*: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Habitat: soil; distribution: Shenyang, Liaoning, China).

***inornatus* (Attiah)**

- Lupotarsonemus inornatus*: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed).

***insignis* Delfinado**

- Tarsonemus insignis*: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).

Tarsonemus insignis: Zeng *et al.*, 1994. *Journal of Fujian Academy of Agricultural Sciences*, 9(4): 61 (Host: silver ear; distribution: Fujian).

Tarsonemus insignis: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: *Tremella fusciformis*; distribution: Fujian).

Tarsonemus insignis: Zeng *et al.*, 1996. *Edible Fungi Acta*, 3(2): 41 (Host and distribution).

***ips* Lindquist**

Tarsonemus ips: Lin *et al.*, 1995. *Acta Zootaxonomica Sinica*, 20(2): 188 (Host: *Scoflytus sp.*; distribution: Hebei).

***lacustris* Schaarschmidt**

Tarsonemus lacustris: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed).

Tarsonemus lacustris: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).

Tarsonemus lacustris: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 526 (Host: pear, peach, willow; distribution: Sichuan).

Tarsonemus lacustris: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: orange, rice; distribution: Liangchen county, Longyan city, Fujian province).

***lanceatus* Lin & Zhang (Figs 11-12)**

Tarsonemus lanceatus Lin & Zhang, 1995. *Wuyi Science Journal*, 12: 118 (Female and male description; holotype female, allotype male, 7 paratype females & 1 male, collected from bamboo *Sinocilimus litislorus* (Munro.) McClure on 22 V 1991 from Yanan; paratype 1 female, collected from orange *Citrus tangerina* on 18 V 1991 from Jinqi, Datian County, Fujian; types: IPPFAAS).

***micronodulus* Yin, Bei, Liu & Tong (Fig. 13)**

Tarsonemus micronodulus Yin *et al.*, 1996. *Journal of Shenyang Agricultural University*

sity, 27(3): 202 (Female description, host: soil; locality: Changbai mountain; types: DPPSAU).

***minusculus* Canestrini & Fanzago**

Tarsonemus minusculus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host; distribution: Fujian)

***minutus* (Attiah)**

Lupotarsonemus minutus: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed).

Lupotarsonemus minutus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***misakai* Ito**

Tarsonemus misakai: Lin *et al.*, 1996. *Acta Zootaxonomica Sinica*, 21(3): 334 (Host: pine needle of *Cedrus deodara* Roxb., *Zoysia matrella*, *Salix matsudana* Koidz. and *Cinnamomum camphora*(L.); distribution: Shanghai, Jiangsu, Fujian).

***montanus* Yin, Bei, Liu & Tong (Fig. 14)**

Tarsonemus montanus Yin *et al.*, 1996. *Journal of Shenyang Agricultural University*, 27(3): 203 (Females in soil from Changbai mountain; types: DPPSAU).

***myceliophagus* (Hussey)**

Lupotarsonemus myceliophagus: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 57 (Diagnosis).

***nakayamai* Ito**

Tarsonemus nakayamai: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***nidicolus* Delfinado**

Tarsonemus nidicolus: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Host: apple; distribution: Xingcheng, Liaoning).

***paragranarius* Piao & Wang (Fig. 15)**

Tarsonemus paragranarius Piao & Wang, 1992. *Journal of Norman Bethune University of Medical Science*, 18(5): 428 (Male description, holotype male, 25. VI. 1991, from the air in the home of an asthmatic patient in Changchun city, Jilin Province; types: DBSBMSNBUMS).

***paraunguis* (Attiah)**

Lupotarsonemus paraunguis: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed)
Lupotarsonemus paraunguis: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***randsi* Ewing**

Tarsonemus randsi: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: bamboo; distribution: Shanghang county, Fujian, China).

***rhorus* Kaliszewski**

Tarsonemus rhorus: Lin *et al.*, 1996. *Acta Zootaxonomica Sinica*, 21(2): 178 (Host: moss; distribution: Shouning, Fujian, China).

***sasai* Ito**

Tarsonemus sasai: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: arista, co-ba, distribution: Liancheng, Fujian, China).

scaurus Ewing

Tarsonemus scaurus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Tarsonemus scaurus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: rice, sugarcane, bamboo and others; distribution: Longyan city, Shanghang county, Liancheng county, Fujian province).

shenyangensis Yin, Bei, Liu, Yu, Shi & Yang (Fig. 16)

Tarsonemus shenyangensis Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 22 (Holotype female, two paratype females, collected by S.-G. Yin from soil in Shenyang, Liaoning; types : DPPSAU).

smithi Ewing

Tarsonemus smithi: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 115 (Female description, host and distribution).

Tarsonemus smithi: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).

Tarsonemus smithi: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 526 (Host: *Caesalpinia* sp; distribution: Chengdu, Sichuan, China).

sp.

Tarsonemus sp.: Li, 1952. *Chinese Economic Entomology*. Print Service Agent of New Hunan Newspaper Press, Changsa: 202 (Injury).

Tarsonemus sp.: Liu *et al.*, 1957. *Chinese Medical Journal*, 75: 581 (Morphology and observation).

Tarsonemus sp.: Lo & Hor, 1977. *Natural Science Council Monthly*, 5(4): 279 (Listed, host: rice and distribution: Taiwan).

Tarsonemus sp.: Lo *et al.*, 1979. *Journal of Agricultural Research of China*, 28(4): 251 (Mycophagy, biology and control).

Tarsonemus sp.: Huang & Qi, 1981. *Wuyi Science Journal*, 1: 91 (Distribution and list).

- Tarsonemus* sp.: Lin *et al.*, 1982. *Fujian Agricultural Science and Technology*, (1): 36 (Morphology of egg, larva, pupa and adult; habit and injury).
- Tarsonemus* sp.: Wu & Wang, 1982. *Wuyi Science Journal*, 2: 134 (Listed).
- Tarsonemus* sp.: Lin & Zhang, 1984. *Plant Protection*, 10(3): 34 (Vector of pathogen).
- Tarsonemus* sp.: Lo & Ho, 1984. *Special Issue of Taiwan Agricultural Research Institute*, 16: 237 (Predation by ascid mites).
- Tarsonemus* sp.: Shan & Liu, 1984. *Plant Protection*, 10(3): 32 (Relationship between mite and disease).
- Tarsonemoides* sp.: Lin & Zhang, 1985. *Crop and Cultivation*, (1): 51 (Listed).
- Tarsonemus* sp. nr. *endophloeus*: Moser, 1985. *Transactions of the British Mycological Society*, 84(4): 752 (Host of *Ceratocystis piceae* (Munch) and phoretic on *Ips nitidis* Eggers from *Picea asperata* Masters, Gansu, China).
- Tarsonemus* sp.: IPPSAAS, DPPSAC, ESPPSP, 1986. *Checklist of Agricultural Insect Pests and Natural Enemies in Sichuan*. Sichuan Scientific and Technical Press: 124 (Listed; predators: *Amblyseius deleoni* Muma, *Agistemus exsertus* Gonzalez-Rodriguez, *Ag. terminalis* (Quayle)).
- Tarsonemus* sp.: Yao, 1986. *Beneficial and Pest Insects of Storage Houses*. China Financial and Economic Press, Beijing: 378 (Host and distribution).
- Tarsonemus* sp.: Yi *et al.*, 1986. *Control of Disease and Insect Pests on Vegetables and Edible Fungi*. Chongqing Press, Chongqing: 137 (Brief diagnosis, occurrence and damage).
- Tarsonemus* sp.: Zhang & Lin, 1986. *Farmer's Consultants in Sciences and Technology*, (2): 20 (Injury).
- Tarsonemus* sp.: Zhang & Lin, 1987. *Edible Fungi*, (6): 35 (Collection, separation, counting and preparation).
- Tarsonemus* sp.: Yu & Xu, 1988. *Common Diseases in Humans and Animals in China*. Fujian Science and Technology Press, Fuzhou: 906 (Causing pulmonary acariasis; distribution).
- Tarsonemus* sp.: Piao, 1990. *Japanese Journal of Sanitary Zoology*, 41(1): 2 (Host: *Cannabis sativa* L.; *Dioscorea nipponica* Mak.).
- Tarsonemus* sp. nr. *fusarii*: Piao, 1990. *Japanese Journal of Sanitary Zoology*, 41(1): 4 (Host: *Polygala tenuifolia* Willd., *Juncus effusus* L. var. *decipiens* Buchen)
- Tarsonemus* sp. nr. *nakayamai*: Piao, 1990. *Japanese Journal of Sanitary Zoology*, 41(1): 2 (Host: *Pulsatilla chinensis* (Bge.) Reg, *Artemisia capillaris* Thunb., *Patrinia villosa* Juss, *Anemarrhena asphodeloides* Bge).
- Tarsonemus* sp. nr. *occidentalis*: Piao, 1990. *Japanese Journal of Sanitary Zoology*, 41(1): 2 (Host: *Artemisia capillaris* Thunb, *Epimedium grandiflorum* Morr,

Piper kadsura (Choisy) Ohwi; *Eriocaulon buergerianum* Koern, *Potentilla discolor* Bge, *Polygala tenuifolia* Willd.).

Tarsonemus sp: Wen, 1990. In: Liu & Lu (ed.) *Medical Entomology*. Science Press. Beijing: 477 (In phlegm).

Tarsonemus sp: Huang, 1991. *Culture of Edible Fungi* (second volume). High Education Press, Beijing: 361 (Injury and control).

Tarsonemus sp: Wan & He, 1993. *The Cultivate Technique of Yellow Back Edible Fungus with High Yield Using Material Bag*. Agricultural Press, Beijing: 51 (Morphology and habitat).

Tarsonemus sp: Qi *et al.*, 1993. *Entomological Journal of East China*, 2(2): 34 (Distribution and damage).

Tarsonemus sp: Guo *et al.*, 1997. *China Edible Fungi*, 16(3): 18 (Injury in Fujian).

***stricketti* Smiley**

Tarsonemus stricketti Smiley, 1967. *Proceeding of Entomological Society in Washington*, 69(2): 141 (Male holotype, USNM 3173, collected from water chesnut, Hong Kong, January 13, 1965, by J. H. Strickett; types: ERDARSUSDA, Washington, D. C. 20250).

***subcorticalis* Lindquist**

Tarsonemus subcorticalis: Lin *et al.*, 1995. *Acta Zootaxonomica Sinica*, 20: 188 (Distribution: Hebei, China; host: *Scolytus* sp.).

***takaoensis* Ito**

Tarsonemus takaoensis: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: orange; distribution: Fujian).

***talpae* Schaarschmidt**

Tarsonemus talpae: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed).

Tarsonemus talpae: Zhou & Xia, 1985. *Integrated control in Agricultural Cultivation*,

- (2): 13 (Listed, distribution and host).
- Tarsonemus talpae*: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 26 (Female description and host).
- Tarsonemus talpae*: Feng *et al.*, 1985. *Journal of Southwest Agricultural College*, (3): 152 (Morphology, biology and economic importance in paddy field).
- Tarsonemus talpae*: Feng *et al.*, 1985. *Journal of Southwest Agricultural College*, (3): 165 (Morphology, occurrence, vector of fungi).
- Tarsonemus talpae*: Li *et al.*, 1986. *Entomological Knowledge*, 23(1): 6 (Feeding on fungi, vectoring rice rot sheath disease).
- Tarsonemus talpae*: Li & Li, 1988. *Acarology*. Chongqing Press, Chongqing: 94 (Distribution and host).
- Tarsonemus talpae*: Li, 1990. *Scientia Agricultural Sinica*, 23(1): 25 (Vector of *Sarocladium oryzae*).
- Tarsonemus talpae*: In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).
- Tarsonemus talpae*: Jiang *et al.*, 1994. *Guangdong Agricultural Sciences*, 5: 37 (Fungivory, vector of pathogen; distribution: Guangdong).
- Tarsonemus talpae*: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 526 (Host: rice, corn, pumpkin, peach, taro; distribution: Sichuan).
- Tarsonemus talpae*: Zhang *et al.*, 1995. *Guangdong Agricultural Sciences*, (6): 38 (Rice varieties resistant to mite).

***teqmen* (Lin & Zhang) (Fig. 17)**

- Ceratotarsonemus teqmen* Lin & Zhang, 1995. *Acta Zootaxonomica Sinica*, 20(4): 426 (Description of females; holotype female, 1 paratype female, on insect, *Mezira* sp. (Aradidae), under the bark of a dead tree trunk, from Letu, Nanjing, Fujian Province, Sept. 1991; types: IPPFAAS)
- Ceratotarsonemus teqmen*: Ochoa *et al.*, 1997. *International Journal of Acarology*, 23(3): 177 (Transfer from *Ceratotarsonemus* to *Tarsonemus*).

***uniunguis* Lin & Zhang (Figs 18-19)**

- Tarsonemus uniunguis* Lin & Zhang, 1995. *Wuyi Science Journal*, 12: 119 (Female and male description; holotype female, allotype male, paratype 2 males, 28 females, collected from co-ba *Zizania caduciflora* (Turcz.) Hand.-Mazz. on 20 X

1989 from Penkou, Liancheng county, Fujian; types: IPPFAAS).

***virigineus* Suski**

Tarsonemus virigineus: Yin *et al.*, 1996. *Journal of Shenyang Agricultural University*, 27(3): 203 (Diagnosis of female; habitat: soil; distribution: Changbai Mt.).

***waitei* Banks**

Tarsonemus setifer Ewing: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 58 (Host).

Tarsonemus setifer: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Tarsonemus waitei: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Tarsonemus waitei: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): (Host: willow, Chinese fir; distribution: Sichuan).

Tarsonemus waitei: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 47 (Host: rice, orange, willow, peach; distribution: Fujian).

***wangi* Lin & Zhang (Figs. 20-22)**

Tarsonemus wangi Lin & Zhang, 1989. *Acta Zootaxonomica Sinica*, 14(1): 42 (Description, holotype female, 4 paratype females, 19. XI. 1985, off cultivated mushroom, *Agaricus bisporus* in Fuzhou, Fujian, China; types: IPPFAAS).

Tarsonemus wangi: Zhang & Lin, 1990. *Journal of Fujian Academy of Agricultural Science*, 5(1):54 (Host and distribution).

Tarsonemus wangi: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).

Tarsonemus wangi: Lin & Zhang, 1993. In: Chao (ed.) *Bulletin of Scientific Investigation in Wuyishan Natural Reserve*. Fujian Science and Technology Press, Fuzhou: 624 (Distribution).

Tarsonemus wangi: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 47 (Host: mushroom; distribution: Fuzhou, Fujian).

Tarsonemus wangi: Yu & Zhang, 1996. *Edible Fungi*, (6): 35 (Host: mushroom; dis-

tribution: Fuyang, Zhejiang).

Genus *Xenotarsonemus* Beer, 1954

Xenotarsonemus: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22: 119 (Diagnosis and genotype).

Xenotarsonemus: Lin & Zhang, 1994. *Wuyi Science Journal*, 11: 136 (Brief review).

Xenotarsonemus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Listed).

Xenotarsonemus: Lin & Zhang, 1996. *Systematic & Applied Acarology*, 1: 173 (Brief review).

***belemnitoides* (Weis-Fogh)**

Xenotarsonemus belemnitoides: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 46 (Host: rice; distribution: Fujian).

***ligula* Lin & Zhang**

Xenotarsonemus ligula Lin & Zhang, 1996. *Systematic & Applied Acarology*, 1: 177 (Female description; host: mosses from twigs of tea tree; types: IPPFAAS).

***sensus* Lin & Zhang (Figs 23-24)**

Xenotarsonemus sensus Lin & Zhang, 1994. *Wuyi Science Journal*, 11: 136 (holotype male, allotype female, and paratypes 2 males, 80 females, 23 VIII 1994, collected on the fall foliage of banyan *Ficus retusa* L. Jiangtian, Changle county, Fujian, China; types: IPPFAAS).

***uliginosus* Willmann**

Xenotarsonemus uliginosus: Lin *et al.*, 1996. *Acta Zootaxonomica Sinica*, 21(2): 178 (Host: moss; distribution: Fujian).

wani (Tseng & Lo) (Fig. 25)

Tarsonemus wani Tseng & Lo, 1980. *Plant Protection Bulletin*, 22: 118 (Female description; holotype female, South Taipei, ex green algae on surface of paddy field, 25 II 1977 (P. K. C. Lo); paratype, 2 females, the same data as for holotype; types: in TBOBCIQMEA)

Tarsonemus wani: Tseng, 1984. In: Griffiths & Bowman (ed.) *Acarology VI*. Ellis Horwood, Chichester, England. Vol. 2: 273 (Listed; host: rice).

Xenotarsonemus wani: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 330 (Listed).

Tarsonemus wani: Ma & Wang, 1992 In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Tribe Hemitarsonemini Lindquist

Hemitarsonemini: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

Genus *Hemitarsonemus* Ewing

Hemitarsonemus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

***biconvexa* Lin & Zhang (Fig. 26)**

Hemitarsonemus biconvexa Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 527 (Male description; holotype male, 12. X. 1993, from *Cibotium barometz* (L.) J. Sm., in Emei Mountain; type: IPPFAAS).

***furcalis* Lin & Zhang (Figs 27-28)**

Hemitarsonemus furcalis Lin & Zhang, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(4): 45 (Female and male description; holotype female, allotype male, 7 paratype females, 1 male, 18 V 1991, from *Pteris esquirolii* Christ; locality: Datian county, Fujian; types: IPPFAAS).

Hemitarsonemus furcalis: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: fern; distribution: Datian county, Fujian province).

Tribe Steneotarsonemini Lindquist

Steneotarsonemini: Lin, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

Genus *Dendroptus* Kramer

Dendroptus: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Listed).

***edwardi* Delfinado**

Dendroptus edwardi: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Host: in gall of willow leaf; distribution: Shenyang).

Genus *Ogmotarsonemus* Lindquist

Ogmotarsonemus: Lin & Zhang, 1993. *Acta Zootaxanómica Sinica*, 18(4): 429 (Diagnosis).

Ogmotarsonemus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

***liui* Lin & Zhang (Fig. 29)**

Ogmotarsonemus liui: Lin & Zhang, 1993. *Acta Zootaxanómica Sinica*, 18(4): 429 (Female description, holotype female, paratypes 7 female, May 26, 1989, Gutian, Shanghang County, Fujian province; on *Zizania caduciflora* (Turcz.) Hand.-Mazz; types: IPPFAAS).

Ogmotarsonemus liui: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: co-ba; distribution: Shanghang county, Nanjing county, Fujian province).

Genus *Steneotarsonemus* Beer

Steneotarsonemus: Zhang & Pan, 1978. *Entomological Knowledge*, 15(5): 138 (Listed).

Steneotarsonemus: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22: 120 (Genotype and diagnosis).

Steneotarsonemus: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Listed).

Steneotarsonemus: Su & Ding, 1984. In: Jiangxi University (ed.) *Chinese Agricultural Acari*, Shanghai Science and Technology Press, Shanghai: 252 (Diagnosis).

Steneotarsonemus: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 22 (Biology).

Steneotarsonemus: Lin & Zhang, 1985. *Crop & Cultivation*, (1): 51 (Listed).

Steneotarsonemus: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 48 (Diagnosis).

Steneotarsonemus: Lin & Zhang, 1995. *Wuyi Science Journal*, 12: 114 (Listed).

Steneotarsonemus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Listed).

Subgenus *Mahunkacarus* Wainstein***badulini* Wainstein**

Steneotarsonemus badulini: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Host: reed; distribution: Panjin, Liaoning).

***gibber* Suski**

Steneotarsonemus gibber: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Host: reed; distribution: Panjin, Liaoning).

Subgenus *Neosteneotarsonemus* Tseng & Lo

Neosteneotarsonemus Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 127 (Diagnosis and genotype).

Steneotarsonemus (*Neosteneotarsonemus*): Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 274 (Status change).

arcticus Lindquist

Steneotarsonemus (*Neosteneotarsonemus*) *arcticus*: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 525 (Host: grass; distribution: Emei Mountain, Sichuan province)

guangzensis Lin, Zhang & Liu (Figs 30-31)

Steneotarsonemus (*Neosteneotarsonemus*) *guangzensis*: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: rice; distribution: Guangze county, Fujian province).

mirabilis Tseng & Lo

Neosteneotarsonemus sp.: Lo & Ho, 1979. *Journal of Agricultural Research of China*, 28(3): 182 (Host: rice; distribution: Taiwan).

Neosteneotarsonemus mirabilis Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 127 (Female description; holotype, female, Tari, Taipei Hsien, *ex. rice leaf sheath*, 5 X 1977 (Y. H. Tseng); paratype, 5 females, Tari, Taipei Hsien, *ex. rice leaf sheath*, 30 VIII 1976 (P. K. C. Lo); 3 females, Banchiou, Taipei Hsien, *ex. rice leaf sheath*, 20 IV 1977 (C. T. Yang); types: in TBOBCIQMEA, Tainan, Taiwan).

Neosteneotarsonemus mirabilis: Tseng, 1984. In: Griffiths & Bowman (ed.) *Acarology VI*, Ellis Horwood, Chichester, UK. Vol. 2: 273 (Listed).

Neosteneotarsonemus mirabilis: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 279 (Listed).

Neosteneotarsonemus mirabilis: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

trisetus Lin et Zhang (Figs 32-33)

Steneotarsonemus (*Neosteneotarsonemus*) *trisetus* Lin & Zhang, 1995. *Wuyi Science Journal*, 12: 114 (Female and male description; holotype female, allotype male, 7 paratype females & 20 males, collected from the leaf sheath of: co-ba *Zizania cauduciflora* (Turcz); Hand.-Mazz. on 23 X 1994, from Zhangpu county; paratype: 1 female & 5 males, on 4 X 1994, from Pingtan County; paratypes 3: females & 1 male on 29. X. 1994, from Changtai county, same host as holotype; types: IPPFAAS).

Subgenus *Steneotarsonemus* Beer

acricorn Lin & Zhang (Figs 34-35)

Steneotarsonemus (*Steneotarsonemus*) *acricorn* Lin & Zhang, 1995. *Wuyi Science Journal*, 12: 116 (Holotype female, allotype male, paratypes 9 females, 7 males collected from the leaf sheath of bamboo *Phyllostachys pubescens* Mazel on 2 VIII 1994 from Jiangtian, Changle county of Fuzhou; paratypes 9 males, 2 females, collected from the leaf sheath of bamboo *Sinocilimus litisorus* (Munro.) McClure on 30 VII 1994, from Lianjiang county of Fuzhou).

bancrofti Michael

Tarsonemus bancrofti: Li, 1952. *Economic Entomology of China*. Print Service Agent of New Hunan Newspaper Press: 940 (Injury to sugarcane in Taiwan).

chiaoi Tseng & Lo (Fig. 36)

Steneotarsonemus sp.: Lo & Ho, 1979. *Journal of Agricultural Research of China*, 28(3): 182 (Host: rice; distribution: Taiwan).

Steneotarsonemus chiaoi Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 120 (Male and female description; holotype, male, Sulin, Taipei Hsien, ex rice leaf sheath, 1 IV 1976 (Y. H. Tseng); allotype, female, the same data as for holotype; paratype, 3 females, 2 males, Tari, Taipei Hsien, ex rice leaf sheath, 2 IV 1977 (P. K. C. Lo); types: in TBOBCIQMEA).

Steneotarsonemus chiaoi: Tseng, 1984. In: Griffiths & Bowman (ed.) *Acarology VI*,

Ellis Horwood, Chichester, UK. Vol. 2: 273 (Listed, host: rice).

Steneotarsonemus chiaoi: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 279 (Listed).

Steneotarsonemus chiaoi: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***furcatus* DeLeon**

Steneotarsonemus furcatus: Lo & Ho, 1979. *Journal of Agricultural Research of China*, 28(3): 182 (Host: rice; distribution: Taiwan).

Steneotarsonemus furcatus: Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 123 (Female and male description, host and distribution).

Steneotarsonemus furcatus: Lin & Zhang, 1982. *The Newsletter of Agricultural Science & Technology*, (11): 24 (Host: rice; distribution: Hunan).

Steneotarsonemus furcatus: Zhou & Xia, 1982. *Jiangxi Agricultural Science and Technology*, (8): 15 (Occurrence, damage, morphology and control).

Steneotarsonemus furcatus: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice; Listed and keyed).

Steneotarsonemus furcatus: Yang, *et al.*, 1983. *Entomological Knowledge*, 20(3): 132 (Male and female morphology, host: rice).

Steneotarsonemus furcatus: Tseng, 1984. In: Griffiths & Bowman (eds.) *Acarology VI*. Ellis Horwood, Chichester, UK. Vol. 2: 273 (Population fluctuation; host: rice).

Steneotarsonemus furcatus: Xin, 1984. *Outline of Acarology*. High Education Press, Beijing: 187 (Brief diagnosis).

Steneotarsonemus furcatus: Zhou & Xia, 1985. *Integrated Control in Agricultural Cultivation*, (2): 13 (Listed, distribution and host).

Steneotarsonemus furcatus: Shan *et al.*, 1985. *Journal of Hunan Agricultural College*, 15(1): 43 (Listed).

Steneotarsonemus furcatus: Yang & Liang, 1986. *Knowledge of Acari*. Science Press, Beijing: 50 (Morphology).

Steneotarsonemus furcatus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Steneotarsonemus furcatus: Lin & Zhang, 1993. In: Chao (ed.) *Bulletin of Scientific Investigation in Wuyishan Natural Reserve*. Fujian Science and Technology Press, Fuzhou: 624 (Distribution).

Steneotarsonemus furcatus: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricul-*

tural Sciences, 10(1): 45 (Host: dog-tail grass; distribution: Nanjing county, Fujian province).

***kono* Smiley**

Steneotarsonemus kono: Yin *et al.*, 1998. *Journal of Shenyang Agricultural University*, 29(1): 23 (Host: *Melia azedarach* L.; distribution: Changsha, Hunan).

***phragmitidis* (Schlectendal)**

Steneotarsonemus phragmitidis: Ding & Yang, 1983. *Plant Protection*, 9(6): 17 (Host: rice).

Steneotarsonemus phragmitidis: Ding, 1985. *Integrated Control in Agricultural Cultivation*, (2): 23 (Morphology).

Steneotarsonemus phragmitidis: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

Steneotarsonemus phragmitidis: Lin & Zhang, 1994. *Journal of Southwest Agricultural University*, 16(6): 525 (Host: grass; distribution: Emei Mountain, Chengdu, Sichuan province).

Steneotarsonemus phragmitidis: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: grass plant; distribution: Fujian province).

***pulchellus* Tseng & Lo (Fig. 37)**

Steneotarsonemus pulchellus Tseng & Lo, 1980. *Plant Protection Bulletin*, 22(1): 122 (Diagnosis; male and female description; holotype male, Talli, Taichung Hsien, ex weeds, 4 XII 1977 (Y. H. Tseng); allotype, female, the same data as for holotype, paratype, 2 male, 1 female, 2 larvae and 2 pupae, the same data as for holotype; types: in TBOBCIQMEA)

Steneotarsonemus pulchellus: Lindquist, 1986. *Memoirs of the Entomological Society of Canada*, 136: 279 (Listed).

Steneotarsonemus pulchellus: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***rivalis* (Tseng & Lo) (Fig. 38)**

Xenotarsonemus rivalis Tseng & Lo, 1980. *Plant Protection Bulletin*, 22: 119 (Female description; holotype female, Pingtung Hsien, ex lichen, 22 V 1972 (Y. H. Tseng), paratype, 3 females the same data as for holotype; types: TBOB-CIQMEA).

Xenotarsonemus rivalis: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

sp.

Tarsonemus sp.: FSPDIPPC & PPR LDAAS, 1976. *Guangxi Agricultural Science*, (4): 43 (Occurrence, injury to rice; morphology, habitat and control).

Steneotarsonemus sp.: Lo & Hor, 1977. *Natural Science Council Monthly*, 5(4): 279 (Listed; host: rice; distribution: Taibei, Taiwan).

Steneotarsonemus sp.: Yang, 1978. *Countryside Scientific Experiment*, (9): 6 (Host: rice; distribution: Qinzhou, Guangxi province).

Steneotarsonemus sp.: Zhang & Pan, 1978. *Entomological Knowledge*, 15(5): 138 (Occurrence, injury, morphology, control methods; host: *Lingnania chungii*, *Schizastachyum funghumii*, *Imperata culindrica*, *Leersia hexandra* and *Paspalum* sp.; distribution: Guangxi, Hunan, Hubei, Fujian and Anhui).

Steneotarsonemus sp.: CCDIP (ed.), 1979. *Crop Diseases and Insect Pests in China*. Agricultural Press, Beijing: 245 (Damage, morphology, life habits, distribution and control methods).

Steneotarsonemus sp.: Zhang, 1979. *Fujian Agricultural Science and Technology*, (4): 46 (Morphology, injury and control).

Steneotarsonemus sp.: Huang & Qi, 1981. *Wuyi Science Journal*, 1: 91 (Distribution and list).

Steneotarsonemus sp.: Zhang & Pan, 1981. *Entomological Knowledge*, 18(2): 55 (Biology and ecology).

Steneotarsonemus sp.: Lin *et al.*, 1982. *Fujian Agricultural Science and Technology*, (1): 36 (Description of different stages; habits and injury).

Steneotarsonemus sp.: Zhang & Pan, 1983. *Entomological Knowledge*, 18(2): 55 (Biology).

Steneotarsonemus sp.: Lin & Zhang, 1985. *Crop and Cultivation*, (1): 51 (Listed).

Steneotarsonemus sp.: Shan *et al.*, 1985. *Journal of Hunan Agricultural College*, 15(1): 43 (Listed).

- Steneotarsonemus* sp.: Kuang, 1986. *Agricultural Acarology*. Agricultural Press, Beijing: 140 (Distribution; host; morphology; biology; ecology; control).
- Steneotarsonemus* sp.: Zhang *et al.*, 1986. *Acta Phytopathologica Sinica*, 16(4): 219 (Listed).
- Steneotarsonemus* sp.: Li & Li, 1988. *Acarology*. Chongqing Press, Chongqing: 94 (Distribution, host, morphology and injury).
- Steneotarsonemus* sp.: Zhang & Lin, 1990. *Journal of Fujian Academy of Agricultural Science*, 5(1): 54 (Host: rice, wheat; distribution: Fujian).
- Steneotarsonemus* sp.: Wang & Chen, 1995. In: IPPCAAS (ed.) *Crop Disease and Insect Pests in China*. China Agricultural Press, (second edition) Beijing: 238 (Damage, morphology, life habits and control).

***spinki* Smiley**

- Steneotarsonemus spinki*: Zhang & Pan, 1975. *Guangdong Agricultural Sciences*, (4): 51 (Brief description; distribution: Guangdong).
- Steneotarsonemus spinki*: Lo & Hor, 1977. *Natural Science Council Monthly*, 5(4): 274 (Population ecology; host: rice; distribution: Taiwan).
- Steneotarsonemus spinki*: Tseng, 1978. *Academia Sinica Institute of Zoology Monograph Series*, (3): 231 (Morphology; host: grape).
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- Steneotarsonemus madecussus*: Fang & Fang, 1979. *Taiwan Agriculture Quarterly*, 14(4): 47 (Plant varieties resistant to mites).
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- Steneotarsonemus spinki*: Lo *et al.*, 1979. *Journal of Agricultural Research of China*, 28(4): 251 (Natural enemy: *Amblyseius taiwanicus* Ehara)
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- Steneotarsonemus spinki*: Chow *et al.*, 1980. *Plant Protection Bulletin, Taiwan*, 22: 17 (Morphology).
- Steneotarsonemus spinki*: Fang, 1980. *Plant Protection Bulletin, Taiwan*, 22: 83 (Infestation, variety and sterility).
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- Ellis Horwood, Chichester, UK. Vol. 2: 273 (Listed; host: rice; biology, ecology and its predaceous mites).
- Steneotarsonemus spinki*: Zhou & Xia, 1985. *Integrated Control in Agricultural Cultivation*, (2): 13 (Listed, distribution and host).
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- Steneotarsonemus spinki*: Zhang & Pan, 1986. *Acta Phytophylacica Sinica*, 13(4): 235 (Infestation and chemical control).
- Steneotarsonemus spinki*: Luo *et al.*, 1988. *Acta Phytopathologica Sinica*, 18(1): 32 (Listed).
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- Steneotarsonemus spinki*: Jiang *et al.*, 1994. *Guangdong Agricultural Sciences*, 5: 37 (Distribution, population dynamic, 39 species of host belonging to 9 families and control method).
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- Steneotarsonemus spirifex*: Lin & Zhang, 1982. *The Newsletter of Agricultural Science and Technology*, (11): 24 (Host: rice; distribution: Hunan).
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- Steneotarsonemus spirifex*: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Listed).

***subfurcatus* Lin & Zhang (Figs 39-41)**

- Steneotarsonemus subfurcatus* Lin & Zhang, 1990. *Acta Entomologica Sinica*, 33: 369 (Holotype, allotype and 42 paratypes, 20 XI 1986, J. Z. Lin, ex *Oryza sativa*, Pudang, Fuzhou, China; types: IPPFAAS; 6 figures).
- Steneotarsonemus subfurcatus*: Ma & Wang, 1992. In: Chen & Ma (eds.) *Researches of Acarology in China*. Chongqing Press, Chongqing: 36 (Checklist).
- Steneotarsonemus subfurcatus*: Lin *et al.*, 1995. *Journal of Fujian Academy of Agricultural Sciences*, 10(1): 45 (Host: rice; distribution: Fuzhou city, Fujian province).

***zhejiangensis* Ding & Yang (Figs 42-43).**

- Steneotarsonemus zhejiangensis*: Yu *et al.*, 1983. *Zhejiang Agricultural Sciences*, (5): 249 (Injury, occurrence area and population number).
- Steneotarsonemus zhejiangensis* Ding & Yang, 1984. *Acta Zootaxonomica Sinica*, 9(3): 272 (Male, female and larva description; holotype male, allotype female, paratypes 10 males, 15 females and 3 larvae found within the sheath of rice in Jiashan County, Zhejiang, on 13 XI 1982 by Gu Tong-Hua; types: in DBFU).

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