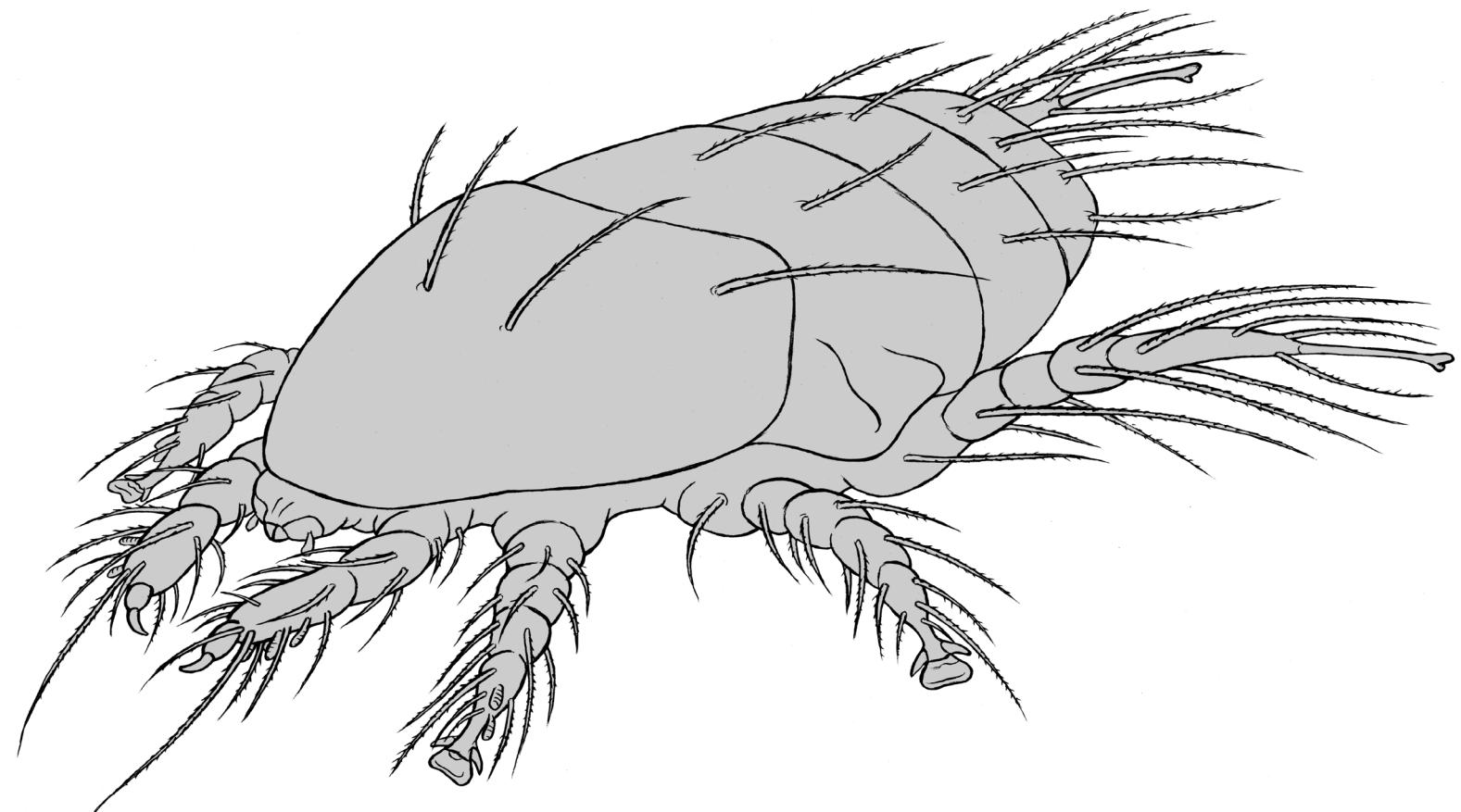


# ACARI

Bibliographia Acarologica



19 (3) · 2019

## Actinedida

**Publisher**

Senckenberg Gesellschaft für Naturforschung, Senckenbergenanlage 25, 60325 Frankfurt am Main, Germany  
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**Indexed in**

CAB Abstracts, Worldcat, Zoological Record

**Cover picture**

Ekkehart Mättig, Senckenberg Museum für Naturkunde Görlitz, Germany

**Production**

Senckenberg Museum für Naturkunde Görlitz, Germany

**Print**

Gustav Winter Druckerei und Verlagsgesellschaft mbH, Herrnhut, Germany. Printed in environmentally friendly paper.

**Distributor**

Senckenberg Museum für Naturkunde Görlitz — Library  
PF 300 154, 02806 Görlitz, Germany  
Email: [library-gr@senckenberg.de](mailto:library-gr@senckenberg.de)

**Subscription Information**

The issue contains an order form.

**Website**

[www.senckenberg.de/acari](http://www.senckenberg.de/acari)

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**Editum**

15 October 2019

**ISSN**  
1618-8977



## ACTINEDIDA No. 18

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Editorial end 15 July 2019

Published 15 October 2019

ACARI - Bibliographia Acarologica aims to advance and help propagate acarological knowledge. To this end, each year we compile all internationally available papers published on Acari, as far as they become known to us. Two major taxon groups are excluded from this bibliography on the paraphyletic Actinedida – the Eriophyidae and the paraphyletic “Hydracarina” since literature databanks of these groups are available elsewhere.

With more than 400 papers recorded this year, the present bibliography is about 20% larger than the average for actinedid research in the last decade, reversing the declining trend of the last few years. Research on 42 families is listed in this issue, about  $\frac{1}{4}$  of all known families of Actinedida. The taxonomic distribution of actinedid research remains similar from year to year, representing economic interests, but also likely the taxonomic expertise of current researchers. Again this year, half of the papers deal with the economically important Tetranychidae, with much work also on other health and agriculturally relevant taxa such as Tenuipalpidae, Tarsonemidae and Trombiculidae. As usual, Heterostigmata are highly represented this year (ca. 13%, mostly concerning Tarsonemidae, Scutacaridae, Podapolipidae and Microdispidae), as are Parasitengona (13% of all papers, the majority dealing again with chiggers and Erythraeidae). Stigmeidae remain widely researched (4%) as does Bdelloidea (i.e. Bdellidae and Cunaxidae; together 3%). Endeostigmata are once again not reported at all this year. In total, the diversity of taxonomic research and thus our knowledge on actinedid biodiversity continues to be depauperate, limited to a small number of taxa.

The thematic distribution on Actinedid research has also remained similar over the last years. Economically important research again dominates this year, with general plant (crop) protection topics – i.e., acarine-pest biology, biological mite control (including predator-prey relationships) and the ecology/biology of plant pests – accounting for the majority (almost 50%) of all papers. Interestingly, many life-history tables are reported this year (however, mostly regarding *Tetranychus* species), increasing our knowledge of the general biology of these species. Systematics and taxonomy remain the second-most important topic (29% of all papers), with almost 150 descriptions of new species and 10 new genera in well over 100 papers. This represents an increase in species descriptions by almost 30% over last year, again reversing the steady decline in the last five years. A new family was also described this year: the raphignathid Dytiscaridae Mortazavi, Hajiqanbar & Lindquist, 2019. In addition, many redescriptions and family and generic revisions are listed in this issue. This, however, does not yet indicate that basic taxonomic research of this mite group does not continue to deteriorate. Molecular biological research on Actinedida continues to increase (23 papers this year), often related to the economically important Tetranychidae.

We continue to point out the paucity of general ecological research, considering that Actinedida represent one of the most abundant soil-microarthropod groups in many habitat types. Research relating to general biology of these mites remains at a constant low level (7–10%, and of that much is related to Tetranychidae). Only six papers in the present volume deal explicitly with Actinedida in the soil fauna. Nonetheless, a large number of regional checklists are reported in this volume, which is vital for understanding actinedid biodiversity world-wide. Determination keys remain sorely needed for most soil-living families and genera, their availability will help promote ecological field research on Actinedida. The present bibliography does fortunately include a large number of keys, i.e., on the world-wide genera of Stigmeidae, Microdispidae and Microtrombidiidae (species!), as well as species keys for many genera, i.e. *Adamystis*, *Erythraeus* larvae, *Raphignathus*, *Eutetranychus*, to name just a few.

Due to the new European data-protection legislation, we no longer collect the addresses and e-mails of the first

authors. This information can be found in the publications themselves. We therefore no longer report on the geographic distribution of Actinedida research around the globe. However, it remains obvious that much research increasingly originates from Arabian and Middle-Eastern countries. A point of note is the Proceedings of the 22nd Iranian Plant protection Congress of 2016, which came to our attention this year and contains much basic research on Actinedida in Iran, not only plant-protection related themes.

The acarological literature collection and databank in Görlitz is one of the largest in the world. The databank of Actinedid literature cited in ACARI has now accumulated 8,731 papers on 4,159 species of actinedid mites. The databank as well as previous issues of ACARI can be accessed via <http://www.senckenberg.de/Acari>.

Reprints of the majority of cited papers are present in the Chelicerata Department of the Senckenberg Museum of Natural History in Görlitz. The registration of all recent publications on actinedid mites is a daunting and time-consuming task, which cannot be undertaken without the aid of all acarologists worldwide. We expressly thank all authors who have assisted this goal and sent reprints of their papers. We nonetheless ask for your continued help by sending reprints or copies of all your papers on actinedid mites. As with any journal, mistakes and omissions are unavoidable. Critique and suggestions are welcome and explicitly called for. Please inform us if we have failed to list any of your publications in the Bibliographia and we will include them in later volumes.

## Acarological literature

Literature citations printed in bold type contain descriptions of new species. Titles marked with “\*” were only found as a citation or abstract.

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## Publications, additions 2015

ARDALI, M.R. / HADIZADEH, A. / SHARIF, M.M. / HAJIQANBAR, H. (2015):\* A supplementary description of *Brevipalpus californicus* (Acari: Trombidiformes: Tenuipalpidae). - Taxon. Biosystem. J. 7,24: 29-38

IZDEBSKA, J.N. / ROLBIECKI, L. (2015): A new species of the genus *Demodex* Owen, 1843 (Acari: Demodecidae) from the ear canals of the house mouse *Mus musculus* L. (Rodentia: Muridae). - Syst. Parasitol. 91: 167-173

## Publications, additions 2014

OTT, A.P. / OTT, R. (2014): A new species of *Andocaeculus* (Acari, Caeculidae) from the Pampa biome, southern Brazil - Iheringia, Sér. Zool. 104,3: 355-363

## Nomina nova

The names of new taxa are listed here as far as we have received the papers. Their validity was not examined here. The authors of new combinations and new synonyms are written in [brackets].

Type-material information as follows:

*Raoiella hallangi* Beard, 2018 (Page: 118<sup>1</sup>) – TYPES: HT<sup>2</sup>  
+ PT<sup>2</sup> - QM<sup>3</sup>

1 – first page of the description

2 – holotype (HT), paratypes (PT) or allotypes (AT)

3 – abbreviations of the places of storage of new types, as far as they were cited in the publications

Abbreviations of the places of storage of new types

ACASI - Acarological Collection, Acarological Society of Iran, University of Tehran, Karaj, Iran

ACDE - Acarological Collection of the Department of Entomology, College of Agriculture, Science and Research Campus, Islamic Azad University, Tehran, Iran

AETMU - Acarological Collection, Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran

AEZIU - Laboratory of Applied Entomology and Zoology, Ibaraki University, Ibaraki, Japan

AFUA - Agricultural Faculty, Plant Protection Department, University of Ankara, Ankara, Turkey

AFUM - Acarology Collection, Faculty of Agriculture, Department of Plant Protection, University of Maragheh, Maragheh, Iran

ALUG - Acarology Laboratory, Department of Plant Protection, University of Guilan, Guilan, Iran

AMU - Adam Mickiewicz University, Department of Animal Morphology, Poznan, Poland

ANIC - Australian National Insect Collection, CSIRO Division of Entomology, Canberra, Australia

BZOL - BiologieZentrum des Oberösterreichischen Landesmuseums, Linz, Austria

CALBS - Collection of the Acarology Laboratory, University of Bu-Ali Sina, Hamadan, Iran

CeNak - Centrum für Naturkunde, Geologisch-Paläontologische Sammlungen, Universität Hamburg, Hamburg, Germany

CNAC - Colección Nacional de ACAROS at the Instituto de Biología, Universidad Nacional Autónoma de México, México, México

CNC - Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, Canada

CSK - Collection Stanislav Kalúz, Bratislava, Slovakia

DISE - Department of Invertebrate Systematics and Ecology, Wrocław University of Environmental and Life Sciences, Wrocław, Poland

DPPZ - Department of Plant Protection, College of Agriculture, University of Zabol, Zabol, Iran

DZSJP - Departamento de Zoologia, Campus de S.J. do Rio Preto, Universidade Estadual Paulista, São Paulo, Brazil

EBYU - Acarology Laboratory of Erzincan Binali Yıldırım University, Erzincan, Turkey

ESALQ/USP - Escola Superior de Agricultura “Luiz de Queiroz”, Universidade de São Paulo, Departamento de Entomologia e Acarologia, Piracicaba, Brazil

FIOC - Fundação Instituto Oswaldo Cruz, Rio de Janeiro, Brazil

GUGC - Guizhou University, Institute of Entomology, Guiyang, Guizhou, China

HNHM - Hungarian Natural History Museum, Budapest, Hungary

IBSP - Instituto Butantan, São Paulo, Brazil

IEBR - Museum of the Institute of Ecology and Biological Resources, Department of Zoology, Vietnamese Academy of Science and Technology, Hanoi, Vietnam

IRSNB - L’Institut Royal des Sciences Naturelles, Bruxelles, Belgium

ISB - Institute of Soil Biology, Biology Centre Academy of Sciences of the Czech Republic, České Budějovice, Czech Republic	Bangkok, Thailand
JAZM - Jalal Afshar Zoological Museum, Acarological Collection, University of Tehran, Karaj, Iran	NCA-PPRI - National Collection of Arachnida, Plant Protection Research Institute, Pretoria, South Africa
KFUG - Karl-Franzens-University, Institute of Zoology, Graz, Austria	NMB - National Museum Bloemfontein, Bloemfontein, South Africa
KSMA - King Saud University Museum of Arthropods, Riyadh, Saudi Arabia	NMNH - National Museum of Natural History, National Insect and Mite Collection, Smithsonian Institution, Beltsville, USA
MAGNT - Museum and Art Gallery of the Northern Territory, Bullocky Point, Fannie Bay, Northern Territory, Australia	NMNS - National Museum of Natural Sciences, Taichung, Taiwan
MAI - Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, University of Gdańsk, Gdańsk, Poland	NMNST - National Museum of Nature and Science, Tsukuba, Japan
MCBU - Manisa Celal Bayar University, Zoological Research Laboratory, Manisa, Turkey	NZAC - New Zealand Arthropod Collection, Landcare Research, Auckland, New Zealand
MCN - Museu de Ciencias Naturais da Univates Centro Universitário, Lajeado, Brazil	NZMC - National Zoological Museum of China, Institute of Zoology, Chinese Academy of Sciences, Beijing, China
MCNFZB - Museu de Ciencias Naturais da Fundacao Zoológica, Rio Grande do Sul, Brazil	QM - Queensland Museum, South Brisbane, Queensland, Australia
MHNG - Muséum d'Histoire Naturelle, Geneva, Switzerland	SASNRU - Sari Agricultural Sciences and Natural Resources University, Department of Plant Protection, Faculty of Crop Sciences, Sari, Iran
MIZ - Museum and Institute of Zoology, Polish Academy of Sciences, Warszawa, Poland	SBUK - Shahid Beheshti University of Kerman, Collection of the Acarology Laboratory, Kerman, Iran
MLP - Museo de La Plata, Paleontological Invertebrate Collection, Buenos Aires, Argentina	SEM - Snow Entomological Museum, University of Kansas, Lawrence, USA
MNCN - Museo Nacional de Ciencias Naturales, Madrid, Spain	SMF - Senckenberg Forschungsinstitut und NaturMuseum, Frankfurt / Main, Germany
MNHNP - Museum of Natural History, Podgorica, Montenegro	SMNG - Senckenberg Museum für Naturkunde Görlitz, Görlitz, Germany
MNHWU - Museum of Natural History, Wrocław University of Environmental and Life Sciences, Wrocław, Poland	SNMB - Slovak National Museum, Bratislava, Slovakia
MPEG - Museu Paraense Emílio Goeldi, Belém, Brazil	TFRI - Collection of Taiwan Forest Research Institute, Taipei, Taiwan
MPPC - Mite Museum, Plant Protection Research and Development Office, Department of Agriculture, Entomology and Zoology Research Group, Chatuchak,	TSUMZ - Tyumen State University Museum of Zoology, Tyumen, Russia
	UESC - Universidade Estadual de Santa Cruz, Laboratório de Entomologia, Ilhéus, Bahia, Brazil

UGDIZP - University of Gdańsk, Department of Invertebrate Zoology and Parasitology, Gdańsk, Poland	HT + PT - MCNFZB
UMMZ - University of Michigan, Museum of Zoology, Ann Arbor, USA	<i>Armascirus skvarlai</i> Kalúz & Starý, 2018 (Page: 550) – TYPES: HT + PT - MHNG, PT - SMNG, SNMB, ISB
UNESP - Universidade Estadual Paulista, Campus de São José do Rio Preto, São Paulo, Brazil	<i>Arrenurus caboti</i> Valdecasas, 2019 (Page: 254) – TYPES: HT + PT - MNCN
UPLB - University of Philippines Los Baños, Museum of Natural History, Laguna, Republic of Philippines	<i>Ascensoengastia ueckermannii</i> Stekolnikov & Mathee, 2019 (Page: 439) – TYPES: HT + PT - ZISP
USNM - United States National Museum of Natural History, Washington, USA	<i>Athyreacarus angustus</i> Khaustov & Frolov, 2019 (Page: 208) – TYPES: HT + PT - ZISP, PT - UMMZ, TSUMZ
UZI - University of Zabol, Acarology Laboratory, Zabol, Iran	<i>Athyreacarus grandis</i> Khaustov & Frolov, 2019 (Page: 174) – TYPES: HT + PT - UNESP, PT - TSUMZ, ZISP
WAM - Western Australian Museum, Perth, Australia	<i>Athyreacarus latus</i> Khaustov & Frolov, 2019 (Page: 203) – TYPES: HT - ZISP, PT - TSUMZ
ZIMG - Zoological Institut and Museum, University of Greifswald, Greifswald, Germany	<i>Athyreacarus magnificus</i> Khaustov & Frolov, 2019 (Page: 179) – TYPES: HT + PT - UNESP, PT - TSUMZ, ZISP
ZISP - Zoological Institute of the Russian Academy of Sciences, Saint Petersburg, Russia	<i>Athyreacarus ovalis</i> Khaustov & Frolov, 2019 (Page: 211) – TYPES: HT + PT - ZISP, PT - TSUMZ
ZMUH - Biozentrum Grindel und Zoologisches Museum, Zoologisches Institut, Universität Hamburg, Hamburg, Germany	<i>Athyreacarus pusillus</i> Khaustov & Frolov, 2019 (Page: 199) – TYPES: HT + PT - UNESP, PT - TSUMZ
ZSM - Zoologische Staatssammlungen, München, Germany	<i>Athyreacarus similis</i> Khaustov & Frolov, 2019 (Page: 188) – TYPES: HT + PT - ZISP, PT - TSUMZ
	<i>Athyreacarus variabilis</i> Khaustov & Frolov, 2019 (Page: 184) – TYPES: HT + PT - UNESP, PT - TSUMZ, ZISP
	<i>Athyreacarus vazdemelloi</i> Khaustov & Frolov, 2019 (Page: 196) – TYPES: HT + PT - UNESP, PT - TSUMZ, ZISP
	<i>Balaustium izmirensis</i> Noei & Ersin, 2019 (Page: 31) – TYPES: HT - JAZM, PT - ACASI
	<i>Buryrythrites pankowskii</i> Konikiewicz & Makol, 2018 (Page: 61) – TYPES: HT - USNM
	<i>Burfessonia maryae</i> Konikiewicz & Makol, 2018 (Page: 65) – TYPES: HT - USNM
	<i>Burphanolophus joergwunderlichi</i> Konikiewicz & Makol, 2018 (Page: 63) – TYPES: HT - MAI
	<i>Bursaustium zabolensis</i> Noei, 2019 (Page: 108) – TYPES: HT + PT - JAZM, PT - DPPZ

## New species

<i>Adamystis ekaterinae</i> Ghasemi-Moghadam & Saboori, 2019 (Page: 15) – TYPES: HT + PT - ACDE, PT - JAZM	
<i>Adamystis saboorii</i> Pakhtinat-Saeij & Ahaniazad, 2019 (Page: 133) – TYPES: HT - AFUM, PT - JAZM	
<i>Aegyptobia bozaii</i> Kontschán & Ripka, 2018 (Page: 100) – TYPES: HT + PT - HNHM	
<i>Aegyptobia gotohi</i> Hasanvand, Jafari, Khanjani & Khanjani, 2019 (Page: 12) – TYPES: HT + PT - CALBS, PT - QM	
<i>Allothrombium arancianum</i> Haitlinger & Šundič, 2018 (Page: 1592) – TYPES: HT - MNHWU, PT - BZOL, MNHP	
<i>Andocaeculus caioi</i> Ott & Ott, 2018 (Page: 356) – TYPES:	

- Caeculisoma semispinus* Xu & Jin, 2019 (Page: 561) – TYPES: HT + PT - GUGC
- Caesarodispus africanus* Khaustov & Ermilov, 2018 (Page: 1896) – TYPES: HT - TSUMZ
- Caesarodispus dilatasetus* Navabi & Hajiqanbar, 2018 (Page: 213) – TYPES: HT+ PT - AETMU
- Caligonella urhani* Akyol, 2018 (Page: 2340) – TYPES: HT + PT - MCBU
- Ceratotarsonemus amazonicus* Rezende, Lofego & Ochoa, 2018 (Page: 275) – TYPES: HT + PT - DZSJR, PT - USNM
- Charadriineopicobia ristowi* Zmudzinski & Unsoeld, 2019 (Page: 373) – TYPES: HT - AMU
- Cheletonella iraniensis* Salarzehi, Hajizadeh & Uecker-mann, 2019 (Page: 189) – TYPES: HT + PT - ALUG, PT - NCA-PPRI
- Clavismaris maquine* Ott & Ott, 2018 (Page: 2) – TYPES: HT + PT - MCN
- Cunaxa corpuzrarosae* Kalúz & Starý, 2018 (Page: 556) – TYPES: HT + PT - SNMB, PT - CSK
- Cunaxa minidiscondyla* Corpuz-Raros, Naredo & Garcia, 2019 (Page: 138) – TYPES: HT + PT - UPLB
- Demodex conicus* Izdebska & Rolbiecki, 2015 (Page: 168) – TYPES: HT + PT - UGDIZP, PT - MIZ
- Diversipes laticaudatus* Khaustov & Minor, 2018 (Page: 513) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Dytiscacarus americanus* Mortazavi & Hajiqanbar, 2018 (Page: 703) – TYPES: HT + PT - CNC
- Dytiscacarus iranicus* Mortazavi & Hajiqanbar, 2018 (Page: 691) – TYPES: HT + PT - AETMU, PT - CNC
- Dytiscacarus thermonecti* Mortazavi & Hajiqanbar, 2018 (Page: 613) – TYPES: HT - CNC, PT - AETMU
- Eatoniana crinita* Sidorchuk, Konikiewicz, Welbourn & Makol, 2019 (Page: 45) – TYPES: HT - SMF, PT - CeNak
- Eotetranychus carpinicolus* Gotoh & Arabuli, 2019 (Page: 10) – TYPES: HT + PT - NMNS, PT - AEZIU
- Eotetranychus linderae* Gotoh & Arabuli, 2019 (Page: 17) – TYPES: HT + PT - NMNS, PT - AEZIU
- Eotetranychus palatiensis* Gotoh & Arabuli, 2019 (Page: 3) – TYPES: HT + PT - NMNS, PT - AEZIU
- Eothrombium fortessambiense* Makol, Konikiewicz & Klug, 2018 (Page: 2137) – TYPES: HT + PT - MAI
- Eryngiopus rezaiyeiensis* Doustaresharaf & Bagheri, 2019 (Page: 260) – TYPES: HT + PT - AFUM
- Erythraeus (Erythraeus) hubeiensis* Xu, Yi, Guo & Jin, 2019 (Page: 55) – TYPES: HT + PT - GUGC
- Erythraeus (Zaracarus) hainanensis* Xu, Yi, Guo & Jin, 2019 (Page: 64) – TYPES: HT + PT - GUGC
- Eustigmaeus bochkovi* Khaustov, 2019 (Page: 154) – TYPES: HT - ZISP, PT - TSUMZ
- Eustigmaeus grandis* Khaustov, 2019 (Page: 164) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Eustigmaeus kulaensis* Akyol, 2019 (Page: 972) – TYPES: HT + PT - MCBU
- Eustigmaeus vietnamiensis* Khaustov & Tsurikov, 2018 (Page: 236) – TYPES: HT + PT - ZISP
- Eutarsopolipus burwelli* Seeman, 2019 (Page: 135) – TYPES: HT + PT - QM, PT - ANIC, ZMUH
- Eutarsopolipus echinatus* Seeman, 2019 (Page: 142) – TYPES: HT + PT - QM, PT - ANIC, ZMUH
- Eutarsopolipus grombrooni* Hajiqanbar & Mortazavi, 2019 (Page: 155) – TYPES: HT + PT - AETMU, PT - UMMZ
- Eutarsopolipus oconnori* Hajiqanbar & Mortazavi, 2019 (Page: 161) – TYPES: HT + PT - AETMU, PT - UMMZ
- Eutetranychus neotranversus* Kamran, Khan & Alatawi, 2018 (Page: 58) – TYPES: HT + PT - KSMA
- Eutetranychus spinosus* Kamran, Khan & Alatawi, 2018 (Page: 50) – TYPES: HT + PT - KSMA
- Fungitarsonemus australiensis* Rezende, Otto, Lofego & Ochoa, 2018 (Page: 1239) – TYPES: HT + PT - ANIC, PT - USNM, DZSJR
- Herpetacarus decasetosus* Stekolnikov & Matthee, 2019

- (Page: 449) – TYPES: HT + PT - ZISP + PT - CNAC
- Herpetacarus octosetosus* Stekolnikov & Mathee, 2019  
(Page: 445) – TYPES: HT + PT - ZISP
- Imparipes clementis* Baumann, 2019 (Page: 305) – TYPES: HT + PT - MNCN, PT - KFUG
- Lacertacarus croaticus* Kalúz, 2019 (Page: 2) – TYPES: HT + PT - SNMB, PT - IRSNB
- Lassenia hemsinensis* Noei, Saboori & Cobanoglu, 2018  
(Page: 346) – TYPES: HT - AFUA
- Lassenia japonica* Haitlinger, Negm & Šundić, 2019 (Page: 272) – TYPES: HT - NMNST, PT - MNHWU, MNHP
- Lawrencipicobia calyptorhyncha* Mahdavi, Latifi & Asadi, 2019 (Page: 194) – TYPES: HT + PT - AMU, PT - ZSM
- Lawrencipicobia sulphurea* Mahdavi, Latifi & Asadi, 2019 (Page: 196) – TYPES: HT + PT - AMU, PT - ZSM
- Ledermuelleriopsis aydinensis* Akyol & Gül, 2019 (Page: 16) – TYPES: HT + PT - MCBU
- Lepidocunaxoides robustus* Kalúz & Ermilov, 2019 (Page: 383) – TYPES: HT + PT - SNMB, PT - IEBR
- Leptus chingombensis* Bernard, Felska & Makol, 2019  
(Page: 794) – TYPES: HT + PT - MNHWU, PT - AMU, PT - DISE
- Lorryia buceroincerta* Kazmierski & Sikora, 2018 (Page: 807) – TYPES: HT + PT - AMU
- Lorryia columbina* Kazmierski, 2018 (Page: 809) – TYPES: HT + PT - AMU
- Lorryia lusciniella* Kazmierski & Marciniak, 2018 (Page: 805) – TYPES: HT + PT - AMU
- Marantelophus dubifurcatus* Xu, Yi & Jin, 2017 (Page: 1013) – TYPES: HT + PT - GUGC
- Microtrombicula graphiuri* Stekolnikov & Mathee, 2019  
(Page: 455) – TYPES: HT + PT - ZISP
- Molothrognathus kurdistaniensis* Amini, Khanjani & Khanjani, 2018 (Page: 876) – TYPES: HT + PT - CALBS
- Morelacarus uazi* Trejo-Palacios, Martínez-Salazar, Rosas-Valdez & Paredes-León, 2019 (Page: 86) – TYPES: HT
- Nasutiscutacarus latisetus* Khaustov & OConnor, 2019  
(Page: 389) – TYPES: HT + PT - SEM
- Nasutiscutacarus longicaudus* Khaustov & OConnor, 2018  
(Page: 387) – TYPES: HT + PT - SEM
- Neoaulobia cacatui* Mahdavi, Latifi & Asadi, 2019 (Page: 192) – TYPES: HT + PT - AMU, PT - ZSM
- Neoaulonastus sidorchukae* Zmudzinski, Skoracki & Hromada, 2019 (Page: 84) – TYPES: HT + PT - AMU, PT - ZSM
- Neocaeculus setecidades* Ott & Ott, 2018 (Page: 2) – TYPES: HT + PT - MPEG
- Neocunaxoides tropicus* Kalúz & Ermilov, 2018 (Page: 1224) – TYPES: HT + PT - SNMB, PT - CSK
- Neognathus pusillus* Dogan & Dogan, 2019 (Page: 1167) – TYPES: HT + PT - EBYU
- Neomicrodispus sibiricensis* Khaustov, 2018 (Page: 176) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Niglarobia lapponica* Zmudzinski & Unsoeld, 2019 (Page: 367) – TYPES: HT + PT - AMU, PT - ZSM
- Orangescirula lii* Chen & Jin, 2019 (Page: 1108) – TYPES: HT + PT - GUGC
- Paracarophenax alternatus* Xu & Zhang, 2018 (Page: 2412) – TYPES: HT + PT - NZMC, PT - NZAC
- Parapunicodoxa striata* Khaustov, Hugo-Coetzee & Ermilov, 2018 (Page: 219) – TYPES: HT - TSUMZ, PT - ZISP, NMB
- Parasecia fernandae* Jacinavicius & Bassini-Silva, 2018  
(Page: 206) – TYPES: HT + PT - FIOC, PT - IBSP
- Parastigmaeus urmiaensis* Doustaresharaf & Bagheri, 2019 (Page: 263) – TYPES: HT + PT - AFUM
- Peristerophila nestoriae* Marciniak, Skoracki & Hromada, 2019 (Page: 349) – TYPES: HT + PT - AMU, PT - ZSM
- Petalonium barrosbattestiae* Jacinavicius, Silva & Khaustov, 2018 (Page: 168) – TYPES: HT + PT - IBSP
- Petalonium mazandaranicum* Abbasi-Moqadam &

- Hajiqanbar*, 2018 (Page: 1181) – TYPES: HT - ACDE
- Petrobia iranica* Mahdavi, Latifi & Asadi, 2018 (Page: 1149) – TYPES: HT + PT - SBUK, PT - ACASI
- Phyllotetranychus hadii* Mahdavi, Latifi and Asadi, 2019 (Page: 567) – TYPES: HT - SBUK, PT - ACASI
- Podapolipus gryllacridi* Lindquist & Sidorchuk, 2019 (Page: 118) – TYPES: HT + PT - ANIC, PT - CNC, ZISP
- Podapolipus laricus* Majidi & Hajiqanbar, 2019 (Page: 677) – TYPES: HT - AETMU, PT - UMMZ, ZMUH
- Premicrodispus hajiqanbari* Khaustov & Frolov, 2018 (Page: 183) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Procaeculus coineaui* Porta, Proud, Franchi, Porto, Bernar-Da Epele & Michalik, 2019 (Page: 38) – TYPES: HT + PT - MLP, PT - ZIMG
- Prolixus splendens* Xu, Zhang & Zhang, 2018 (Page: 159) – TYPES: HT + PT - NZAC
- Propolyssenia wohltmanni* Makol, Konikiewicz & Klug, 2018 (Page: 2131) – TYPES: HT + PT - MAI
- Pseudoschoengastia petrolinensis* Jaccinavicius, Bassini-Silva & Barros-Battesti, 2019 (Page: 228) – TYPES: HT + PT - IBSP
- Punicodoxa lineata* Khaustov, Hugo-Coetzee & Ermilov, 2018 (Page: 222) – TYPES: HT + PT - TSUMZ, PT - ZISP, NMB
- Pyemotes cumberi* Yu & Zhang, 2019 (Page: 1015) – TYPES: HT + PT - NZAC
- Pyemotes martini* Yu & Zhang, 2019 (Page: 1025) – TYPES: HT + PT - NZAC
- Pyemotes mayae* Yu & Zhang, 2019 (Page: 1035) – TYPES: HT + PT - NZAC
- Raoiella argenta* Beard, 2018 (Page: 9) – TYPES: HT + PT - QM
- Raoiella bauchani* Beard & Ochoa, 2018 (Page: 36) – TYPES: HT + PT - QM, PT - USNM
- Raoiella calgoa* Beard & Ochoa, 2018 (Page: 48) – TYPES: HT + PT - QM
- Raoiella crebra* Beard & Ochoa, 2018 (Page: 64) – TYPES: HT + PT - QM, PT - USNM
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- Raoiella didcota* Beard, 2018 (Page: 87) – TYPES: HT + PT - QM, PT - USNM
- Raoiella goyderi* Ochoa & Beard, 2018 (Page: 101) – TYPES: HT - MAGNT, PT - QM, USNM
- Raoiella hallingi* Beard, 2018 (Page: 118) – TYPES: HT + PT - QM
- Raoiella illyarrie* Beard & Ochoa, 2018 (Page: 124) – TYPES: HT+ PT - WAM, PT - QM, USNM
- Raoiella karri* Ochoa & Beard, 2018 (Page: 148) – TYPES: HT+ PT - WAM, PT - QM, USNM
- Raoiella marri* Beard & Ochoa, 2018 (Page: 181) – TYPES: HT+ PT - WAM, PT - QM, ANIC, USNM
- Raoiella pooleyi* Beard & Ochoa, 2018 (Page: 203) – TYPES: HT+ PT - QM, PT - USNM
- Raoiella tallerack* Beard & Ochoa, 2018 (Page: 221) – TYPES: HT+ PT - WAM, PT - QM, USNM
- Raoiella tarongo* Beard & Ochoa, 2018 (Page: 233) – TYPES: HT+ PT - QM, PT - USNM
- Raoiella todtiana* Beard & Ochoa, 2018 (Page: 247) – TYPES: HT+ PT - WAM, PT - QM
- Raoiella wandoo* Beard & Ochoa, 2018 (Page: 264) – TYPES: HT+ PT - WAM, PT - QM, USNM
- Raphignathus hamooniensis* Poudineh, Ramroodi & Bagheri, 2019 (Page: 1007) – TYPES: HT + PT - UZI, PT - AFUM
- Raphignathus kurdistaniensis* Nasrollahi, Khanjani & Mirfakhraie, 2018 (Page: 2071) – TYPES: HT + PT - CALBS
- Raphignathus tamaricis* Poudineh, Ramroodi & Bagheri, 2019 (Page: 1010) – TYPES: HT + PT - UZI, PT - AFUM
- Saniosulus deliquus* Dogan, Bingül & Dogan, 2019 (Page: 223) – TYPES: HT + PT - EBYU

- Schoutedenichia horaki* Stekolnikov & Matthee, 2019 (Page: 442) – TYPES: HT + PT - ZISP
- Scutacarus cornutus* Khaustov & Minor, 2018 (Page: 532) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Scutacarus crassus* Khaustov & Minor, 2018 (Page: 543) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Scutacarus incisus* Khaustov & Minor, 2018 (Page: 525) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Scutacarus isotrichus* Khaustov & Minor, 2018 (Page: 518) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Scutacarus novaezealandicus* Khaustov & Minor, 2018 (Page: 539) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Scutacarus pseudoapodemi* Navabi & Hajiqanbar, 2018 (Page: 533) – TYPES: HT + PT - AETMU
- Scutacarus spinisetus* Khaustov & Minor, 2018 (Page: 529) – TYPES: HT - NZAC, PT - TSUMZ
- Sidorchukdispus ekaterinae* Khaustov, Hugo-Coetzee, Ermilov & Theron, 2019 (Page: 107) – TYPES: HT + PT - NMB, PT - TSUMZ
- Sonotetranychus madinahensis* Alatawi & Kamran, 2018 (Page: 433) – TYPES: HT - KSMA
- Stigmaeopsis formosa* Saito, Chao & Sato, 2019 (Page: 679) – TYPES: HT + PT - TFRI
- Stigmaeopsis inthanonensis* Saito, Kongchuensin & Sahara, 2019 (Page: 676) – TYPES: HT + PT - MPPC
- Stigmaeus dogani* Akyol, 2019 (Page: 582) – TYPES: HT + PT - MCBU
- Stigmochelylus persicus* Damavandian & Paktnat-Saeij, 2018 (Page: 2163) – TYPES: HT + PT - SASNRU, PT - JAZM, ACASI
- Tenuipalpus alhagus* Khan, Kamran & Alatwi, 2019 (Page: 188) – TYPES: HT + PT - KSMA
- Tenuipalpus etemadii* Mahdavi & Asadi, 2019 (Page: 261) – TYPES: HT + PT - SBUK, PT - QM
- Tenuipalpus kitajimai* Castro, Feres & Ochoa, 2018 (Page: 194) – TYPES: HT + PT - DZSJR, PT - NMNH
- Tenuipalpus neokeiensis* Khan, Kamran & Alatwi, 2019 (Page: 197) – TYPES: HT + PT - KSMA
- Tenuipalpus odoratus* Souza, Castro & Oliveira, 2019 (Page: 545) – TYPES: HT + PT - UESC, PT - DZSJR, ESALQ/USP
- Tenuipalpus pariae* Hasanvand, Javari, Khanjani & Khanjani, 2018 (Page: 1353) – TYPES: HT + PT - CALBS, PT - QM
- Tenuipalpus protium* Castro, Feres & Ochoa, 2018 (Page: 179) – TYPES: HT + PT - DZSJR, PT - NMNH
- Tenuipalpus tamarixi* Mahdavi & Asadi, 2018 (Page: 2185) – TYPES: HT - SBUK, PT - ACASI
- Tetranychus salicornicus* Alatawi & Kamran, 2018 (Page: 438) – TYPES: HT - KSMA
- Torotroglpaenae* Glowska, Romanowska, Schmidt & Dabert, 2018 (Page: 865) – TYPES: HT + PT - USNM, PT - AMU
- Trombicula walkerae* Stekolnikov & Matthee, 2019 (Page: 460) – TYPES: HT + PT - ZISP

## New family

*Dytiscacaridae* Hajiqanbar & Lindquist, 2018 (see Mortazavi, Hajiqanbar & Lindquist (2018) page: 690) – Typ. gen.: *Dytiscacarus* Hajiqanbar & Lindquist, 2018

## New genera

*Burerythrites* Konikiewicz & Makol, 2018 (Page: 61) – Typ. sp.: *Burerythrites pankowskii* Konikiewicz & Makol, 2018

*Burfessonnia* Konikiewicz & Makol, 2018 (Page: 64) – Typ. sp.: *Burfessonnia maryae* Konikiewicz & Makol, 2018

*Burphanolophus* Konikiewicz & Makol, 2018 (Page: 63) – Typ. sp.: *Burphanolophus joergwunderlichi* Konikiewicz & Makol, 2018

*Dytiscacarus* Hajiqanbar & Lindquist, 2018 (see Mortazavi Hajiqanbar & Lindquist (2018) page: 690) – Typ. sp.: *Dytiscacarus iranicus* Mortazavi & Hajiqanbar, 2018

- Lepidocunaxoides* Kalúz & Ermilov, 2019 (Page: 383) – Typ. sp.: *Lepidocunaxoides robustus* Kalúz & Ermilov, 2019
- Neopterygosoma* Fajfer, 2019 (Page: 422) – Typ. sp.: *Pterygosoma chilensis* Fajfer & González-Acuna, 2013
- Parapunicodoxa* Khaustov, Hugo-Coetzee & Ermilov, 2018 (Page: 218) – Typ. sp.: *Parapunicodoxa striata* Khaustov, Hugo-Coetzee & Ermilov, 2018
- Propolyssenia* Makol, Konikiewicz & Klug, 2018 (Page: 2130) – Typ. sp.: *Propolyssenia wohltmanni* Makol, Konikiewicz & Klug, 2018
- Scarabadania* Khaustov & Frolov, 2018 (Page: 196) – Typ. sp.: *Bakerdania tenuispina* Sevastianov, 1974
- Sidorchukdispus* Khaustov, Hugo-Coetzee, Ermilov & Theron, 2019 (Page: 105) – Typ. sp.: *Sidorchukdispus ekaterinae* Khaustov, Hugo-Coetzee, Ermilov & Theron, 2019
- & Mesghali, 1970 – [Stekolnikov, Saboori, Shamsi & Hakimitabar, 2019: 30]
- Ornithogastia oenanthe* (Vercammen-Grandjean, Rohde & Mesghali, 1970) – [Stekolnikov, Saboori, Shamsi & Hakimitabar, 2019: 31]
- Rostrodispus brevisetus* (Mahunka, 1975) – [Khaustov & Ermilov, 2018: 1899]
- Rostrodispus laterostriatus* (Mahunka, 1970) – [Khaustov & Ermilov, 2018: 1899]
- Rostrodispus obtegitus* (Mahunka, 1977) – [Khaustov & Ermilov, 2018: 1899]
- Rostrodispus proboscidatus* (Mahunka, 1969) – [Khaustov & Ermilov, 2018: 1899]
- Rostrodispus testudinus* (Mahunka, 1971) – [Khaustov & Ermilov, 2018: 1899]
- Scarabadania tenuispina* (Khaustov & Frolov, 2018) – [Khaustov & Frolov, 2018: 197]

## New combinations

*Acericis alpinus* (Collyer, 1973) – [Mitra, Acharya & Ghosh, 2018: 861]

*Acericis montanus* (Collyer, 1973) – [Mitra, Acharya & Ghosh, 2018: 857]

*Eustigmaeus gratus* (Kuznetsov, 1978) – [Khaustov, 2019: 170]

*Herpetacarus amapensis* (Brennan, 1970) – [Jacinavicius, Bassini-Silva, Welbourn, Ochoa & Barros-Battesti, 2019: 1140]

*Herpetacarus hertigi* (Brennan & Jones, 1964) – [Jacinavicius, Bassini-Silva, Welbourn, Ochoa & Barros-Battesti, 2019: 1141]

*Microtrombicula meriones* (Vercammen-Grandjean, Rohde & Mesghali, 1970) – [Stekolnikov, Saboori, Shamsi & Hakimitabar, 2019: 43]

*Microtrombicula galerida* (Vercammen-Grandjean, Rohde & Mesghali, 1970) – [Stekolnikov, Saboori, Shamsi & Hakimitabar, 2019: 42]

*Ornithogastia merops* (Vercammen-Grandjean, Rohde

& Mesghali, 1970 – [Khaustov & Ermilov, 2018: 1899]

*Troxodania problematica* (Mahunka, 1975) – [Khaustov & Frolov, 2018: 188]

*Villersia jamaliensis* (Khaustov, 2014) – [Khaustov, 2019: 170]

## New synonyms

*Arisocerus* Brennan, 1970 – [Jacinavicius, Bassini-Silva, Welbourn, Ochoa, Barros-Battesti, 2019: 1139]  
= *Herpetacarus* Vercammen-Grandjean, 1960

*Eustigmaeus ioanninensis* Kapaxidi & Papadoulis, 1999 – [Khaustov, 2019: 171]  
= *Eustigmaeus pinnatus* (Kuznetsov, 1977)

*Oligonychus hainanensis* Ma, Yuan & Lin, 1979 – [Li, Yi, Guo & Jin, 2019: 1082]  
= *Oligonychus* (Pritchaeedinychus) biharensis (Hirst, 1924)

*Paravillersia* Kuznetsov, 1978 – [Khaustov, 2019: 169]  
= *Eustigmaeus* Berlese, 1910

*Paravillersia grata* Kuznetsov, 1978 – [Khaustov, 2019:  
170]  
= *Eustigmaeus ottavii* (Berlese, 1910)

## New status

*Gerrhosaurobria* Lawrence, 1951 (Page: 421) – [Fajfer,  
2019: 421]

*Rostrodispus* Mahunka, 1969 (Page: 1898) – [Khaustov  
& Ermilov, 2018: 1898]

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