

# ACARI

Bibliographia Acarologica



**20 (3) · 2020**

**Actinedida**

# ACARI

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## Publisher

Senckenberg Gesellschaft für Naturforschung, Senckenberganlage 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

25 November 2020

## ISSN

1618-8977



## ACTINEDIDA No. 19

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Editorial end 15 July 2020  
Published 25 November 2020

ACARI - Bibliographia Acarologica aims to advance and help disseminate 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 316 papers recorded this year, the present bibliography is somewhat smaller than has been average for actinedid publications in the last decade, and almost 25% lower than last year. The thematic distribution on actinedid research continues the trends observed over the last years. Economically important topics again dominated the research published this year, with general plant (crop) protection topics – i.e., acarine-pest biology, acaracides as well as biological mite control (including predator-prey relationships) and the ecology/biology of plant pests – accounting for the vast majority (over 50%) of all papers. These themes have been increasingly dominating actinedid research over the last decade (up from ca. 40% in the early 2010s). Interestingly, molecular studies (6% of all papers in this volume) progressively concern the genetic background of acaricide susceptibility and tolerance, especially in spider mites. Systematics and taxonomy remain the second-most important topic (28% of all papers), but have been continuously decreasing (down from >35% in the first half of the last decade). This indicates a disconcerting tendency of research on Actinedida to be more economically oriented, with less basic and taxonomic research on this vastly understudied mite group. Nonetheless, 106 descriptions of new species and 8 new genera are represented in this volume. This represents a strong decrease in species descriptions, continuing the steady decline in the last five years, but may simply be a consequence of the fewer publications this year. The continued deterioration of actinedid basic research is also reflected by no studies of soil-related Actinedida being reported this year, and general ecological or faunistic investigations accounting for less than 10% of all papers. However, a number of regional checklists are reported in this volume, which is vital for understanding actinedid biodiversity world-wide. Determination keys remain sorely needed for many families and genera, their availability helps promote ecological field research on Actinedida. The present bibliography does fortunately include a number of keys, specifically mentioned are world-wide species keys for genera such as *Allocaeculus* and *Caeculus* (Caeculidae), *Leptus* (Erythraeidae), larval *Eutrombidium* (Eutrombidiidae), *Mixonychus* (Tetranychidae) or *Metatarsonemus* (Tarsonemidae), among others.

Research on 34 families is listed in this issue, only 20% of all known families of Actinedida. The taxonomic distribution of actinedid research remains similar to previous years, often representing economic interests. Over 60% of the papers deal with the agriculturally and thus economically important Tetranychidae, Tenuipalpidae, and Tarsonemidae, with much work also on other health relevant taxa such as Trombiculidae. Heterostigmata are represented by 7% of the publications this year, Parasitengona in total by 16% of all papers, and families such as Stigmaeidae (4%) or Bdelloidea (i.e. Bdellidae and Cunaxidae; together 3%) were also often studied. This distribution has remained constant throughout the last decade, perhaps representing the taxonomic expertise of the remaining active taxonomists in actinidid research. Endeostigmata are unfortunately again not reported at all this year. In total, the diversity of taxonomic research and thus our knowledge on actenidid biodiversity continues to be depauperate, limited to a small number of families.

Due to the new European data-protection legislation, we no longer collect the addresses and e-mails of the first authors. We therefore no longer report on the geographic distribution of Actinedida research around the globe. This information can be found in the publications themselves.

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 9,035 papers on 4,286 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.

### Publications 2020

**ABOU-ELELLA, G.M. / ABDEL-KHALEK, A.A. (2020):** Biology and life table analysis of *Tetranychus urticae* (Acari: Tetranychidae) on different common pea and bean cultivars. - Persian J. Acarol. 9,2: 181-192

**AKRAMI, M.A. / RAHIMI, V. (2020):** Mites associated with the date palm in Jahrom (Fars Province), Southern Iran. - Mun. Ent. Zool. 15,2: 450-456

**AKYOL, M. (2020): A new species of the genus *Raphignathus* Dugés (Acari: Raphignathidae) from the Aegean region of Turkey. - Syst. Appl. Acarol. 25,6: 1095-1101**

**AKYOL, M. (2020): A new species of the genus *Neophyllobius* Berlese (Acari: Camerobiidae) from Denizli province, Turkey. - Acarol. Stud. 2,2: 88-93**

**AKYOL, M. / Koc, K. (2020): Erratum: M. Akyol & K. Koc, A new species and a new record of the genus *Tycherobius* (Acari: Camerobiidae) for the Turkish**

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**AL KHOURY, C. / GUILLOT, J. / NEMER, N. (2020):** Susceptibility and development of resistance of the mite *Tetranychus urticae* to aerial conidia and blastospores of the entomopathogenic fungus *Beauveria bassiana*. - Syst. Appl. Acarol 25,3: 429–443

**ALAVIJEH, E.S. / KHAJEHALI, J. / SNOECK, S. / PANTELERI, R. / GHADAMYARI, M. / JONCKHEERE, W. / BAJDA, S./ SAALWAECHTER, C. / GEIBEL, S. / DOURIS, V. / VONTAS, J. / VAN LEEUWEN, T. / DERMAUW, W. (2020):\*** Molecular and genetic analysis of resistance to METI-I acaricides in Iranian populations of the citrus red mite *Panonychus citri*. - Pest. Biochem. Physiol. 164: 73-84

**ALCIVAR, J. / MESA, N.C. / VÁSQUEZ, C. (2020):** First report of *Raoiella indica* Hirst (Acari: Tenuipalpidae) in Province of Manabí, Ecuador. - Intern. J. Acarol. 46,2: 120-122

**ALPAKENT, Y.N. / INAK, E. / ULUSOY, S. / AY, R. (2020):** Acaricide resistance and mechanisms in *Tetranychus urticae* populations from greenhouses in Turkey. - Syst. Appl. Acarol. 25,1: 155-168

**AMARAL, I. / MELVILLE, C.C. / ROCHA, C.M. / DELLA VECCHIA, J.F. / PRADO, T.J. / ANDRADE, D.J. (2020):** Sublethal effects of spirodiclofen on biological and demographic parameters of the citrus leprosis mite

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- BARBAR, Z. / AUGER, P. (2020): New records of the genus *Bryobia* (Acari: Tetranychidae) from Syria with description of a new species. - Acarologia 60,2: 268-288**
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- XU, Y. / ZHU, Y.-Z. / WU, J.-Q. / ZHANG, F.-P. (2019): Morphological ontogeny in *Tenuipalpus orilloi* Rimando (Acari: Tenuipalpidae). - Zootaxa 4717,1: 185-205**
- XU, Z. / LIU, P. / HU, Y. / HU, J. / QI, C. / WU, Q. / HE, L. (2019): Characterization of an intradiol ring-cleavage dioxygenase gene associated with Abamectin resistance in *Tetranychus cinnabarinus* (Acari: Tetranychidae). - J. Econ. Entomol. 112,4: 1858-1865**
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## **Publications, additions 2018**

DOGAN, S. / DOGAN, S. / BİNGÜL, M. (2018): The discovery of pharate female of *Eustigmaeus segnis* (Koch) (Acari, Stigmeidae) in its deutonymphal integument.  
- Plant Prot. Bull. 58,1: 41-46

## **Publications, additions 2017**

no further literature

## **Publications, additions 2016**

no further literature

## **Publications, additions 2015**

no further literature

## 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:

*Brevinychus isosetae* Flechtmann, 2019 (Page: 1752<sup>1</sup>) –  
TYPES: HT<sup>2</sup> + PT<sup>2</sup> - MZLQ<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

ABUH - Al-Baath University, Department of Plant Protection, Faculty of Agriculture, Homs, Syria

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

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

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

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

BASU - Bu-Ali Sina University, Acarology Laboratory, Hamedan, Iran

BMNH - British Museum of Natural History, Department of Entomology, London, United Kingdom

CMC - Canterbury Museum, Christchurch, New Zealand

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

E BYU - Erzincan Binali Yıldırım University, Acarology Laboratory, Erzincan, Turkey

FAFU - Fujian Agricultural and Forestry University, Department of Plant Protection, Fuzhou, China

FIOCRUZ - Fundacão 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

JAZM - Jalal Afshar Zoological Museum, Acarological Collection, University of Tehran, Karaj, Iran

KSMA - King Saud University Museum of Arthropods, Riyadh, Saudi Arabia

LAZUA - Laboratory of Agricultural Zoology and Entomology, Agricultural University of Athens, Athens, Greece

MCBU - Manisa Celal Bayar University, Zoological Research Laboratory, Manisa, Turkey

MCN - Museu de Ciencias Naturais da Univesitário Lajeado, Brazil

MHNG - Muséum d'Histoire Naturelle, Geneva, Switzerland

MNCN - Museo Nacional de Ciencias Naturales, Madrid, Spain

MNHN - Muséum National d'Histoire Naturelle, Laboratoire de Zoologie (Arthropodes), Paris, France

MNH-P - Museum of Natural History, Podgorica, Montenegro

MNHWU - Museum of Natural History, Wrocław University of Environmental and Life Sciences, Wrocław, Poland

MZLQ - Museu de Zoologia da Escola Superior de Agricultura "Luiz de Queiroz", Piracicaba, São Paulo, Brazil

NCA-PPRI - National Collection of Arachnida, Plant

<u>P</u> rotection <u>R</u> esearch <u>I</u> nstitute, Pretoria, South Africa	Valencia, Spain
NHME - <u>N</u> atural <u>H</u> istory <u>M</u> useum of <u>E</u> rfurt, Erfurt, Germany	USNM - <u>Uited <u>S</u>tates <u>N</u>ational <u>M</u>useum of Natural History, Washington, USA</u>
NIBR - <u>N</u> ational <u>I</u> nstitute of <u>B</u> iological <u>Resources, Incheon, Republic of Korea</u>	USNMB - <u>Uited <u>S</u>tates <u>N</u>ational <u>M</u>useum of Natural History, Beltsville, Maryland, USA</u>
NMB - <u>N</u> ational <u>M</u> useum <u>B</u> loemfontein, Bloemfontein, South Africa	UZG - <u>Uiversity of <u>Z</u>ielona <u>G</u>óra, Department of Zoology, Faculty of Biological Sciences, Zielona Góra, Poland</u>
NZAC - <u>N</u> ew <u>Z</u> ealand <u>A</u> rthropod <u>C</u> ollection, Landcare Research, Auckland, New Zealand	ZMUH - Biozentrum Grindel und <u>Z</u> oologisches <u>M</u> useum, Zoologisches Institut, <u>Universität <u>H</u>amburg, Hamburg, Germany</u>
OSAL - <u>O</u> hio <u>S</u> tate University, Museum of Biological Diversity, <u>A</u> cariology <u>L</u> aboratory, Columbus, Ohio, USA	
PMAE - Royal Alberta Museum (formerly <u>P</u> rovincial <u>M</u> useum of <u>A</u> lberta), Invertebrate Zoology Collection, Edmonton, <u>A</u> lberta, Canada	
PMANU - Department of <u>P</u> lant <u>M</u> edicine, <u>A</u> ndong <u>N</u> ational University, Andong, Republic of Korea	<b>New species</b>
PUCRS - <u>P</u> ontifícia <u>Universidade <u>C</u>atólica do <u>R</u>io Grande do <u>S</u>ul, Museu de Ciências e Tecnologia, Porte Alegre, Brazil</u>	<i>Abrolophus karamani</i> Haitlinger & Šundić, 2020 (Page: 108) – TYPES: HT - MNHWU, PT - MNHP
QM - <u>Q</u> ueensland <u>M</u> useum, South Brisbane, Queensland, Australia	<i>Agistemus piquinnus</i> Monjarás-Barrera & Johann, 2020 (Page: 472) – TYPES: HT - ESALQ/USP, PT - CNAC, UNAM
SASNRU - <u>S</u> ari <u>Agricultural <u>S</u>ciences and <u>Natural <u>Resources <u>University, Department of Plant Protection, Faculty of Crop Sciences, Sari, Iran</u></u></u></u>	<i>Allocaeulus sirwani</i> Paktinat-Saejj & Ghobari, 2020 (Page: 834) – TYPES: HT - JAZM, PT - SASNRU
SEM - <u>S</u> now <u>E</u> ntomological <u>M</u> useum, University of Kansas, Lawrence, USA	<i>Allothrombium monosolenidion</i> Kamran & Alatawi, 2020 (Page: 736) – TYPES: HT + PT - KSMA, PT - OSAL
TSUMZ - <u>T</u> yumen <u>S</u> tate <u>Uiversity <u>M</u>useum of <u>Z</u>oology, Tyumen, Russia</u>	<i>Andrebochkovia cochlearis</i> Khaustov & Frolov, 2019 (Page: 210) – TYPES: HT + PT - ZISP, PT - TSUMZ
UFMG - <u>Universidade <u>F</u>ederal de <u>M</u>inas <u>G</u>erais, Departamento de Zoologia, Colecao de Acarologia, Belo Horizonte, Brazil</u>	<i>Andrebochkovia madagascariensis</i> Khaustov & Frolov, 2019 (Page: 213) – TYPES: HT - ZISP
UNAM - <u>Universidad <u>N</u>acional <u>A</u>utónoma de <u>M</u>éxico, Instituto de Biología, México City, México</u>	<i>Armascirus amazoniensis</i> Wurlitzer & Silva, 2020 (Page: 861) – TYPES: HT - ESALQ/USP, PT - MCN
UNESP - <u>Universidade <u>E</u>stadual <u>P</u>aulista, Campus de São José do Rio Preto, São Paulo, Brazil</u>	<i>Athyreacarus brevisetosus</i> Khaustov & Frolov, 2020 (Page: 267) – TYPES: HT + PT - ZISP, PT - TSUMZ
UPV - <u>Universidad <u>P</u>olitécnica of <u>V</u>alencia, Institut Agroforestal Ecosystems, Laboratory of Acarology,</u>	<i>Athyreacarus indicus</i> Khaustov & Frolov, 2020 (Page: 261) – TYPES: HT + PT - ZISP, PT - TSUMZ
	<i>Birjandtrombella farniae</i> Noei, 2020 (Page: 1103) – TYPES: HT + PT - ACASI
	<i>Biskatrombium persicum</i> Majidi, Hajiqanbar & Saboori, 2020 (Page: 798) – TYPES: HT - AETMU, PT - ACASI, ZMUH

- Bochkovlaster variabilis* Khaustov, 2019 (Page: 195) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Brevinychus isosetae* Flechtmann, 2019 (Page: 1752) – TYPES: HT + PT - MZLQ
- Brevipalpus sulcatus* Alves, Ferragut & Navia, 2019 (Page: 2189) – TYPES: HT + PT - MNCN
- Bryobia (Allobia) syriensis* Barbar & Auger, 2020 (Page: 269) – TYPES: HT + PT - ABUH
- Caeculisoma allopelineatus* Xu & Jin, 2020 (Page: 286) – TYPES: HT + PT - GUGC
- Caeculus cassiopeiae* Bernard & Lumley, 2020 (Page: 7) – TYPES: HT + PT - PMAE
- Caeculus veracruzensis* Porta & Rojas, 2020 (Page: 744) – TYPES: HT + PT - UNAM
- Crossdania tubulosa* Khaustov & Whitaker, 2019 (Page: 310) – TYPES: HT + PT - USNM, PT - TSUMZ
- Cryptognathus khaustovi* Mohammad Doustaresharaf & Bagheri, 2019 (Page: 1694) – TYPES: HT + PT - AFUM, PT - JAZM
- Cunaxoides lajeadensis* Wurlitzer & Monjarás-Barrera, 2020 (Page: 402) – TYPES: HT - ESALQ/USP, PT - MCN
- Dambullaeus hainanensis* Xu & Jin, 2019 (Page: 456) – TYPES: HT + PT - GUGC
- Dambullaeus jianfengensis* Xu & Jin, 2020 (Page: 297) – TYPES: HT + PT - GUGC
- Dolichocybe orzueyehiensis* Hajiqanbar, Khaustov & Mortazavi, 2019 (Page: 1364) – TYPES: HT - AETMU, PT - TSUMZ
- Empitrombium prasadi* Saberi-Riseh & Saboori, 2020 (Page: 208) – TYPES: HT + PT - JAZM, PT - NHME, ZMUH
- Erythraeus (Parerythraeus) thomasi* Roland & Gabrys, 2020 (Page: 326) – TYPES: HT + PT - UZG
- Eutarsopolipus piraticus* Seeman, 2019 (Page: 208) – TYPES: HT + PT - QM, PT - ANIC, ZMUH
- Eutarsopolipus uncatus* Seeman, 2019 (Page: 227) – TYPES: HT + PT - QM, PT - ANIC, ZMUH
- Eutarsopolipus verberatus* Seeman, 2019 (Page: 220) – TYPES: HT + PT - QM, PT - ANIC, ZMUH
- Eutrombidium carajas* Noei & Šundič, 2020 (Page: 669) – TYPES: HT + PT - JAZM
- Favognathus kazemii* Mohammad Doustaresharaf & Bagheri, 2019 (Page: 1703) – TYPES: HT + PT - AFUM, PT - JAZM
- Favognathus rosulatus* Dogan & Dogan, 2019 (Page: 71) – TYPES: HT + PT - EBYU
- Geckobia andina* Machado, Gazeta, Peréz Z., Cunha & Giupponi, 2019 (Page: 335) – TYPES: HT - FIOCRUZ
- Geckobia circumdata* Machado, Gazeta, Peréz Z., Cunha & Giupponi, 2019 (Page: 342) – TYPES: HT - FIOCRUZ
- Hoplocheylus lindquisti* Xu & Zhang, 2019 (Page: 2493) – TYPES: HT + PT - NZMC, PT - FAFU
- Iguatonia seemani* Xu & Jin, 2020 (Page: 306) – TYPES: HT + PT - GUGC
- Iguatonia xinfensi* Xu & Jin, 2020 (Page: 315) – TYPES: HT + PT - GUGC
- Lasioerythraeus jessicae* Costa, Klompen, Bernardi, Goncalves, Ribeiro & Pepato, 2019 (Page: 158) – TYPES: HT + PT - UFMG
- Ledermuelleriopsis alvatanensis* Mohammad Doustare-sharaf & Bagheri, 2019 (Page: 347) – TYPES: HT + PT - AFUM, PT - JAZM
- Lepidocunaxoides bomiensis* Chen & Jin, 2020 (Page: 179) – TYPES: HT + PT - GUGC
- Leptus andongensis* Hakimitabar, Joharchi & Jung, 2020 (Page: 156) – TYPES: HT + PT - PMANU, PT - NIBR, JAZM
- Leptus cameroonius* Haitlinger, Šundič, Nkwala & Laurel, 2020 (Page: 608) – TYPES: HT + PT - MNHWU
- Leptus flechtmanni* Bassini-Silva, Jacianvicius & Barros-Battesti, 2020 (Page: 214) – TYPES: HT + PT - IBSP
- Leptus haitlinger* Jacianvicius, Bassini-Silva & Welbourn, 2019 (Page: 725) – TYPES: HT + PT - IBSP
- Leptus sidorchukae* Costa, Klompen, Bernardi, Goncalves,

- Ribeiro & Pepato, 2019 (Page: 159) – TYPES: HT + PT - UFMG
- Lorryia meliponarum* Da-Costa, Rodighero, Da Silva, Ferla & Blochtein, 2019 (Page: 102) – TYPES: HT + PT - ESALQ/USP, PT - PUCRS, MCN
- Lorryia pseudoplacita* Khaustov, Hugo-Coetzee & Ermilov, 2020 (Page: 48) – TYPES: HT + PT - NMB, PT - TSUMZ
- Lupaeus waldumirus* Wurlitzer & Monjarás-Barrera, 2020 (Page: 407) – TYPES: HT - ESALQ/USP, PT - MCN
- Melissotydeus bipunctata* Da-Costa, Rodighero, Da Silva, Ferla & Blochtein, 2019 (Page: 104) – TYPES: HT + PT - ESALQ/USP, PT - PUCRS, MCN
- Metatarsonemus caissara* Lofego & Cavalcante, 2019 (Page: 314) – TYPES: HT+ PT - UNESP, PT - ESALQ/ USP
- Microtrombicula microscuta* Stekolnikov, Al-Ghamdi, Alagaili & Makepeace, 2019 (Page: 1950) – TYPES: HT + PT - ZISP
- Microtrombicula muhaylensis* Stekolnikov, Al-Ghamdi, Alagaili & Makepeace, 2019 (Page: 1952) – TYPES: HT + PT - ZISP
- Neophyllobius denizliensis* Akyol, 2020 (Page: 88) – TYPES: HT - MCBU
- Neotetranychus longisetus* Khan, Kamran & Alatawi, 2019 (Page: 494) – TYPES: HT + PT - KSMA
- Odontacarus scorpionivorus* Stekolnikov & Saboori, 2019 (Page: 343) – TYPES: HT + PT - ZISP
- Parabonzia sibiricensis* Khaustov, 2020 (Page: 549) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Paraplothrombium maketawa* Clark, 2019 (Page: 434) – TYPES: HT - CMS
- Pavania brevicaudata* Khaustov & Frolov, 2020 (Page: 708) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pavania copridis* Khaustov & Frolov, 2020 (Page: 720) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pavania hansreiaphila* Khaustov & Frolov, 2020 (Page: 717) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pavania kermaniensis* Hajiqanbar, Khaustov & Mortazavi, 2019 (Page: 1367) – TYPES: HT - AETMU, PT - TSUMZ
- Pavania magowskii* Hajiqanbar, Khaustov & Mortazavi, 2019 (Page: 1370) – TYPES: HT - AETMU, PT - TSUMZ
- Pavania megasolenidia* Hajiqanbar, Khaustov & Mortazavi, 2019 (Page: 1373) – TYPES: HT - AETMU, PT - TSUMZ
- Pavania pusilla* Khaustov & Frolov, 2020 (Page: 714) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pavania scarabaeophilus* Hajiqanbar, Khaustov & Mortazavi, 2019 (Page: 1377) – TYPES: HT - AETMU, PT - TSUMZ
- Pavania semireducta* Khaustov & Frolov, 2020 (Page: 711) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pediculaster bisetus* Khaustov, 2020 (Page: 328) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pediculaster rarus* Khaustov, 2020 (Page: 332) – TYPES: HT - ZISP
- Pediculaster tjumeniensis* Khaustov, 2020 (Page: 318) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Phyllodispus tenuisetus* Khaustov & Minor, 2020 (Page: 478) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Phytoptipalpus occultuae* Ueckermann, Ochoa & Bauchan, 2019 (Page: 509) – TYPES: HT + PT - NCA-PPRI, PT - BMNH, USNMB
- Proctotydaeus (Neotydeolus) lasaroi* Da-Costa, Rodighero & Ferla, 2020 (Page: 1034) – TYPES: HT - ESALQ/ USP, PT - PUCRS, MCN
- Proctotydaeus (Oriolella) dorsoreticulatus* Da-Costa, Rodighero & Ferla, 2020 (Page: 1039) – TYPES: HT - ESALQ/USP, PT - PUCRS, MCN
- Proctotydaeus (Oriolella) quadrifasciatae* Da-Costa, Rodighero & Ferla, 2020 (Page: 1044) – TYPES: HT - ESALQ/USP, PT - PUCRS, MCN
- Promicrodispus bisetus* Khaustov & Minor, 2020 (Page: 483) – TYPES: HT + PT - NZAC, PT - TSUMZ

- Promicrodispus novaezealandicus* Khaustov & Minor, 2020 (Page: 487) – TYPES: HT - NZAC
- Promicrodispus secundus* Khaustov & Minor, 2020 (Page: 492) – TYPES: HT + PT - NZAC, PT - TSUMZ
- Prostigmaeus amplius* Dogan, Dogan & Türk, 2020 (Page: 1076) – TYPES: HT + PT - EBYU
- Pseudoluciaphorus tuberosus* Khaustov, Hugo-Coetzee & Ermilov, 2019 (Page: 1883) – TYPES: HT + PT - NMB, PT - TSUMZ
- Pseudopygmephorellus orientalis* Khausov & Frolov, 2019 (Page: 1542) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Pseudopygmephorellus ovalisetus* Khausov & Frolov, 2019 (Page: 1545) – TYPES: HT + PT - ZISP, PT - TSUMZ
- Raphignathus kulaensis* Akyol, 2020 (Page: 1096) – TYPES: HT + PT - MCBU
- Razgthrombium ganjii* Noei, 2020 (Page: 932) – TYPES: HT + PT - JAZM
- Rhinopygmephorus africanus* Khaustov & OConnor, 2019 (Page: 441) – TYPES: HT + PT - SEM, PT - TSUMZ, UMMZ
- Rhinopygmephorus brasiliensis* Khaustov & OConnor, 2019 (Page: 442) – TYPES: HT + PT - SEM, PT - ESALQ/USP, TSUMZ, UMMZ
- Rhinopygmephorus mexicanus* Khaustov & OConnor, 2019 (Page: 445) – TYPES: HT + PT - SEM, PT - TSUMZ, UMMZ, UNAM
- Schoutedenichia asirensis* Stekolnikov, Al-Ghamdi, Alagaili & Makepeace, 2019 (Page: 1941) – TYPES: HT + PT - ZISP
- Schoutedenichia microcebi* Stekolnikov, 2020 (Page: 704) – TYPES: HT + PT - ZISP, PT - NHML
- Schoutedenichia saudi* Stekolnikov, Al-Ghamdi, Alagaili & Makepeace, 2019 (Page: 1945) – TYPES: HT + PT - ZISP
- Scutacarus cingulatus* Silva, Khaustov & Oliveira, 2019 (Page: 1344) – TYPES: HT + PT - UESC, PT - DZSJP, ESALQ/USP
- Scutascirus hechiensis* Chen, Guo, Yi & Jin, 2019 (Page: 2220) – TYPES: HT + PT - GUGC
- Stigmaeus canestrinii* Stathakis, Kapaxidi & Papadoulis, 2019 (Page: 2016) – TYPES: HT + PT - LAZUA
- Stigmaeus claviformis* Stathakis, Kapaxidi & Papadoulis, 2019 (Page: 2045) – TYPES: HT + PT - LAZUA
- Stigmaeus graminis* Stathakis, Kapaxidi & Papadoulis, 2019 (Page: 2070) – TYPES: HT + PT - LAZUA
- Stigmaeus kochi* Stathakis, Kapaxidi & Papadoulis, 2019 (Page: 2025) – TYPES: HT + PT - LAZUA
- Stigmaeus pseudoangustus* Stathakis, Kapaxidi & Papadoulis, 2019 (Page: 2056) – TYPES: HT + PT - LAZUA
- Stigmaeus pulumurensis* Dogan & Dogan, 2020 (Page: 42) – TYPES: no information
- Syringophiloides estrildus* Skoracki, Hromada, Prevuznakova & Wamiti, 2019 (Page: 1802) – TYPES: HT - AMU
- Syringophilopsis bochkovi* Skoracki, Mironov & Bermúdez, 2019 (Page: 231) – TYPES: HT + PT - UMMZ, PT - AMU, ZISP
- Tanopicobia trachyphoni* Skoracki, Sikora, Jerzak & Hromada, 2020 (Page: 4) – TYPES: HT - AMU
- Tanytydeus theroni* Khaustov, Hugo-Coetzee & Ermilov, 2019 (Page: 1605) – TYPES: HT + PT - NMB, PT - TSUMZ
- Tarsonemus bahiensis* Sousa, Rezende & Ochoa, 2020 (Page: 1001) – TYPES: HT - DZSJP, PT - UESC, ESALQ/USP
- Tarsonemus cacao* Sousa, Lofego & Ochoa, 2020 (Page: 988) – TYPES: HT + PT - DZSJP, PT - UESC
- Teneriffia sebahatae* Ueckermann & Durucan, 2020 (Page: 1141) – TYPES: HT + PT - MNHN
- Tetranychopsis vertesiensis* Kontschán, Kiss & Ripka, 2019 (Page: 1965) – TYPES: HT + PT - HNHM
- Theriadania venusta* Khaustov & Whitaker, 2019 (Page: 316) – TYPES: HT + PT - USNM, PT - TSUMZ
- Trombidium demirsoyi* Sevsay & Buga, 2020 (Page: 34) – TYPES: HT + PT - EBYU

*Tycherobius banehiensis* Nasrollahi, Khanjani & Mirfakhrاءee, 2019 (Page: 2233) – TYPES: HT + PT - BASU

*Valgothrombium takhtii* Saberi-Riseh & Saboori, 2020 (Page: 119) – TYPES: HT + PT - JAZM, PT - ACASI

## New genera

*Andrebochkovia* Khaustov & Frolov, 2019 (Page: 209) – Typ. sp.: *Andrebochkovia cochlearis* Khaustov & Frolov, 2019

*Birjandtrombella* Noei, 2020 (Page: 1103) – Typ. sp.: *Birjandtrombella farniae* Noei, 2020

*Bochkovlaster* Khaustov, 2019 (Page: 193) – Typ. sp.: *Bochkovlaster variabilis* Khaustov, 2019

*Crossdania* Khaustov & Whitaker, 2019 (Page: 309) – Typ. sp.: *Crossdania tubulosa* Khaustov & Whitaker, 2019

*Pseudoluciaphorus* Khaustov, Hugo-Coetzee & Ermilov, 2019 (Page: 1882) – Typ. sp.: *Pseudoluciaphorus tuberosus* Khaustov, Hugo-Coetzee & Ermilov, 2019

*Razgthrombium* Noei, 2020 (Page: 932) – Typ. sp.: *Razgthrombium ganjii* Noei, 2020

*Tanopicobia* Skoracki, Sikora, Jerzak & Hromada, 2020 (Page: 4) – Typ. sp.: *Tanopicobia trachyphoni* Skoracki, Sikora, Jerzak & Hromada, 2020

*Theriadania* Khaustov & Whitaker, 2019 (Page: 312) – Typ. sp.: *Theriadania venusta* Khaustov & Whitaker, 2019

## New combinations

*Bryobia (Bryobiopsis) abatielloi* (Smiley & Baker, 1995) (Page: 298) – [Arabuli, Maric & Auger, 2019: 298]

*Bryobia (Bryobiopsis) neoephedrae* (Gutierrez & Bolland, 1998) (Page: 298) – [Arabuli, Maric & Auger, 2019: 298]

*Evertella orissaensis* (Prasad, 1975) – [Khan, Kamran & Alatawi, 2019: 502]

*Favognathus aegyptiaca* (Fawzy, Khalil & Yassin, 2011) – [Dogan & Dogan, 2020: 74]

*Favognathus rosetta* (Fawzy, Khalil & Yassin, 2011) – [Dogan & Dogan, 2020: 74]

*Lepidocunaxoides neopectinatus* (Shiba, 1978) – [Chen, Guo, Yi & Jin, 2020: 190]

*Mixonychus (Bakerina) ganjuis* (Qian, Yuan & Ma, 1980) – [Khan, Kamran & Alatawi, 2019: 503]

*Neoaulonastus oryzivorus* (Skoracki, 2011) – [Skoracki, Hromada, Prevuznakova & Wamiti, 2019: 1804]

*Trisetica knighti* (Radford, 1954) – [Stekolnikov & Quetglas, 2019: 2]

## New synonyms

*Delmohius* Brennan & Goff, 1978 – [Bassini-Silva, De Castro Jacinavicius, Welbourn, Ochoa & Barros-Battesti, 2020: 1189]  
= Carebareia Goff & Brennan, 1977

*Delmohius hardyi* Brennan & Goff, 1978 – [Bassini-Silva, De Castro Jacinavicius, Welbourn, Ochoa & Barros-Battesti, 2020: 1189]  
= Carebareia johnstoni Goff & Brennan, 1977

*Pterygosoma expansum* Bertrand, Finkelman & Paperna, 2000 – [Fajfer, 2020: 19]  
= Pterygosoma adramitana Jack, 1961

*Pterygosoma gladiator* Bertrand, Finkelman & Paperna, 2000 – [Fajfer, 2020: 111]  
= Pterygosoma neumannii (Berlese, 1910)

*Pterygosoma rhipidostichata* Bertrand, Finkelman & Paperna, 2000 – [Fajfer, 2020: 8]  
= Pterygosoma mutabilis Jack, 1961

## New status

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

*Erythraeus (Parerythraeus)* Southcott, 1946 (Page: 326) – [Roland & Gabrys, 2020: 326]

*Pterygosoma aculeatum* Lawrence, 1936 (Page: 93) – [Fajfer, 2020: 93]

*Pterygosoma angolae* Jack, 1962 (Page: 51) – [Fajfer,  
2020: 51]

*Pterygosoma capensis* Jack, 1962 (Page: 55) – [Fajfer,  
2020: 55]

*Pterygosoma circularis* Jack, 1962 (Page: 76) – [Fajfer,  
2020: 76]

*Pterygosoma orbicularis* Jack, 1962 – [Fajfer, 2020: 119]

*Pterygosoma problematica* Jack, 1962 (Page: 83) – [Fajfer,  
2020: 83]

*Pterygosoma pseudoorbicularis* Jack, 1962 – [Fajfer, 2020:  
121]



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