

Peter Michalik

List of Publications by Year in descending order

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89
papers

1,690
citations

304743

22
h-index

361022

35
g-index

92
all docs

92
docs citations

92
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	Irreversible impact of early thermal conditions: an integrative study of developmental plasticity linked to mobility in a butterfly species. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	1
2	The World Spider Trait database: a centralized global open repository for curated data on spider traits. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	3.0	30
3	Evolution of Silk Anchor Structure as the Joint Effect of Spinning Behavior and Spinneret Morphology. <i>Integrative and Comparative Biology</i> , 2021, 61, 1411-1431.	2.0	6
4	Natural history collections recapitulate 200 years of faunal change. <i>Royal Society Open Science</i> , 2021, 8, 201983.	2.4	8
5	Morphological analyses of the adult and juvenile stages of the stalked jellyfish <i>Craterolophus convolvulus</i> (Johnston, 1835) (Cnidaria: Staurozoa: Stauromedusae: Craterolophidae) using micro-CT. <i>Zoologischer Anzeiger</i> , 2021, 292, 240-260.	0.9	4
6	Micro-Computed Tomography Reveals a Remarkable Twin Intromittent Organ in Spiders – A Novelty for Arachnids With Direct Sperm Transfer. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	3
7	The fossil record of spiders revisited: implications for calibrating trees and evidence for a major faunal turnover since the Mesozoic. <i>Biological Reviews</i> , 2020, 95, 184-217.	10.4	72
8	Copulatory mechanics in the wolf spider <i>Agalenocosa pirty</i> reveals a hidden diversity of locking systems in Lycosidae (Araneae). <i>Journal of Morphology</i> , 2020, 281, 250-257.	1.2	8
9	The morphology of mating plugs and its formation in scorpions: Implications for intersexual participation. <i>Journal of Morphology</i> , 2020, 281, 620-635.	1.2	8
10	The first fossil pycnocheiridiine pseudoscorpion (Pseudoscorpiones: Cheiridiidae: Procheiridium gen.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.5	6
11	Cryptic diversity in ant-mimic <i>Micaria</i> spiders (Araneae, Gnaphosidae) and a tribute to early naturalists. <i>Zoologica Scripta</i> , 2020, 49, 197-209.	1.7	14
12	Notes on fossil Bdelloidea 1: the first snout mite (Acariformes: Bdellidae) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> <i>Acarology</i> , 2020, 25, 1754-1764.	0.5	2
13	<i>Cretolixon</i> : a remarkable new genus of rhopalosomatid wasps (Hymenoptera: Vespoidea: Rhopalosomatidae) from chemically tested, mid-Cretaceous Burmese (Kachin) amber supports the monophyly of Rhopalosomatinae. <i>Fossil Record</i> , 2020, 23, 215-236.	1.4	2
14	Phylogenomics and genital morphology of cave raptor spiders (Araneae, Trogloraptoridae) reveal an independent origin of a flow-through female genital system. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2019, 57, 737-747.	1.4	14
15	Evolution of aerial spider webs coincided with repeated structural optimization of silk anchorages. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 2122-2134.	2.3	25
16	Functional trade-offs in cribellate silk mediated by spinning behavior. <i>Scientific Reports</i> , 2019, 9, 9092.	3.3	20
17	Coming and going – Historical distributions of the European oyster <i>Ostrea edulis</i> Linnaeus, 1758 and the introduced slipper limpet <i>Crepidula fornicata</i> Linnaeus, 1758 in the North Sea. <i>PLoS ONE</i> , 2019, 14, e0224249.	2.5	11
18	The innervation of the male copulatory organ of spiders (Araneae) – a comparative analysis. <i>Frontiers in Zoology</i> , 2019, 16, 39.	2.0	11

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19	The first record of caeculid mites from the Cretaceous amber of Myanmar with notes on the phylogeny of the family. <i>Zootaxa</i> , 2019, 4647, 23-43.	0.5	4
20	The Spider Anatomy Ontology (SPD) – A Versatile Tool to Link Anatomy with Cross-Disciplinary Data. <i>Diversity</i> , 2019, 11, 202.	1.7	15
21	Notes on rhopalosomatid wasps of Dominican and Mexican amber (Hymenoptera: Rhopalosomatidae) with a description of the first fossil species of <i>Rhopalosoma</i> ; Cresson, 1865. <i>Fossil Record</i> , 2019, 22, 31-44.	1.4	8
22	Web-building behavior of the odd-clawed spider <i>Progradungula otwayensis</i> (Araneae: Gradungulidae) and implications for the evolution of combing behavior in spiders. <i>Journal of Arachnology</i> , 2019, 47, 299.	0.5	4
23	GREIFSWALD: The Zoological Museum of the University Greifswald: Past, Present, and Future. <i>Natural History Collections</i> , 2018, , 397-404.	0.1	0
24	Lost and found – Fritz MÅ¼ller’s type material of <i>Glossiphonia verrucata</i> (Fr. MÅ¼ller, 1844) (Hirudinida). <i>Journal of Systematics</i> , 2018, 2, 163-168.	0.7	5
25	Ultrastructure of chemoreceptive tarsal sensilla in an armored harvestman and evidence of olfaction across Laniatores (Arachnida, Opiliones). <i>Arthropod Structure and Development</i> , 2017, 46, 178-195.	1.4	18
26	Recluse spiders produce flattened silk rapidly using a highly modified, self-sufficient spinning apparatus. <i>Journal of Zoology</i> , 2017, 303, 27-35.	1.7	6
27	Sensory system plasticity in a visually specialized, nocturnal spider. <i>Scientific Reports</i> , 2017, 7, 46627.	3.3	16
28	Putative thermo-/hygroreceptive tarsal sensilla on the sensory legs of an armored harvestman (Arachnida, Opiliones). <i>Zoologischer Anzeiger</i> , 2017, 270, 81-97.	0.9	8
29	The spider genus <i>Austrochilus</i> Gertsch & Zapfe, 1955 (Araneae: Austrochilidae) – a new species from Chile and a documentation of the male genitalia of austrochilines. <i>Zootaxa</i> , 2017, 4312, 323.	0.5	1
30	The ground beetle genus <i>Bembidion</i> Latreille in Baltic amber: Review of preserved specimens and first 3D reconstruction of endophallic structures using X-ray microscopy (Coleoptera, Carabidae). <i>Journal of Insect Conservation</i> , 2017, 50, 297-307.	1.5	11
31	Record breaking achievements by spiders and the scientists who study them. <i>PeerJ</i> , 2017, 5, e3972.	2.0	42
32	Deciphering genital anatomy of rare, delicate and precious specimens: first study of two type specimens of mayflies using micro-computed X-ray tomography (Ephemeroptera). <i>Journal of Insect Conservation</i> , 2017, 50, 217-231.	1.5	11
33	Blind life in the Baltic amber forests: description of an eyeless species of the ground beetle genus <i>Trechus</i> Clairville, 1806 (Coleoptera: Carabidae: Trechini). <i>Zootaxa</i> , 2016, 4083, 431-43.	0.5	13
34	Potential of X-ray micro-computed tomography for soft-bodied and gelatinous cnidarians with special emphasis on scyphozoan and cubozoan statoliths. <i>Journal of Plankton Research</i> , 2016, 38, 1225-1242.	1.8	20
35	Transition from monogyny to polygyny in <i>Nephila senegalensis</i> (Araneae: Nephilidae) is not accompanied by increased investment in sperm. <i>Biological Journal of the Linnean Society</i> , 2016, 119, 1027-1035.	1.6	3
36	Effects of fen management and habitat parameters on staphylinid beetle (Coleoptera: Staphylinidae) assemblages in north-eastern Germany. <i>Journal of Insect Conservation</i> , 2016, 20, 129-139.	1.4	14

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37	X-ray microscopy reveals endophallic structures in a new species of the ground beetle genus <i>Trechus</i> Clairville, 1806 from Baltic amber (Coleoptera, Carabidae, Trechini). <i>ZooKeys</i> , 2016, 614, 113-127.	1.1	14
38	Potential and limitations of X-ray micro-computed tomography in arthropod neuroanatomy: A methodological and comparative survey. <i>Journal of Comparative Neurology</i> , 2015, 523, 1281-1295.	1.6	113
39	Female genital morphology and sperm storage in the velvet spider <i>Eresus kollari</i> (Araneae: Tetragnathidae). <i>Journal of Arachnology</i> , 2015, 41, 1-10.	0.5	3
40	Extreme convergence in egg-laying strategy across insect orders. <i>Scientific Reports</i> , 2015, 5, 7825.	3.3	86
41	Female control of mate plugging in a female-cannibalistic spider (<i>Micaria sociabilis</i>). <i>BMC Evolutionary Biology</i> , 2015, 15, 18.	3.2	16
42	First evidence of neurons in the male copulatory organ of a spider (Arachnida, Araneae). <i>Biology Letters</i> , 2015, 11, 20150465.	2.3	16
43	Evolutionary morphology of the hemolymph vascular system of basal araneomorph spiders (Araneae: Tetragnathidae). <i>Journal of Arachnology</i> , 2014, 40, 1-10.	1.4	13
44	Evolutionary Morphology of the Primary Male Reproductive System and Spermatozoa of Goblin Spiders (Oonopidae; Araneae). <i>Bulletin of the American Museum of Natural History</i> , 2015, 396, 1-72.	3.4	7
45	Complex epidermal organs of <i>Phascolion</i> (Sipuncula): insights into the evolution of bimodal secretory cells in annelids. <i>Acta Zoologica</i> , 2015, 96, 343-374.	0.8	7
46	Re-description of <i>Xysticus bimaculatus</i> L. Koch, 1867 (Araneae, Thomisidae) and characterization of its subsocial lifestyle. <i>ZooKeys</i> , 2014, 427, 1-19.	1.1	4
47	Morphological evidence for limited sperm production in the enigmatic Tasmanian cave spider <i>Hickmania troglodytes</i> (Austrochilidae, Araneae). <i>Invertebrate Biology</i> , 2014, 133, 180-187.	0.9	4
48	Serial Block-Face Imaging and its Potential for Reconstructing Diminutive Cell Systems: A Case Study from Arthropods. <i>Microscopy and Microanalysis</i> , 2014, 20, 946-955.	0.4	9
49	Calculating structural complexity in phylogenies using ancestral ontologies. <i>Cladistics</i> , 2014, 30, 635-649.	3.3	30
50	Ultrastructure of spermatozoa of orsolobidae (Haplogynae, Araneae) with implications on the evolution of sperm transfer forms in Dysderoidea. <i>Journal of Morphology</i> , 2014, 275, 1238-1257.	1.2	13
51	Evolutionary morphology of the male reproductive system, spermatozoa and seminal fluid of spiders (Araneae, Arachnida) – Current knowledge and future directions. <i>Arthropod Structure and Development</i> , 2014, 43, 291-322.	1.4	75
52	Mating system does not predict permanent sperm depletion in black widow spiders. <i>Evolution & Development</i> , 2013, 15, 205-212.	2.0	12
53	Cephalic secretion release in the male dwarf spider <i>Oedothorax retusus</i> (Linyphiidae: Erigoninae): An ultrastructural analysis. <i>Arthropod Structure and Development</i> , 2013, 42, 477-482.	1.4	7
54	Male Reproductive System of Spiders. , 2013, , 173-187.		15

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55	Spermatozoa and spermiogenesis of the wolf spider <i>Schizocosa malitiosa</i> (Lycosidae, Araneae) and its functional and phylogenetic implications. <i>Zoomorphology</i> , 2013, 132, 11-21.	0.8	16
56	Factors affecting lifespan in bird-eating spiders (Arachnida: Mygalomorphae, Theraphosidae) – A multi-species approach. <i>Zoologischer Anzeiger</i> , 2013, 253, 126-136.	0.9	9
57	The enigmatic Otway odd-clawed spider (<i>Progradungula otwayensis</i> Milledge, 1997, Gradungulidae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 38 palpal organ. <i>ZooKeys</i> , 2013, 335, 101-112.	1.1	21
58	First description of the male of <i>Thaida chepu</i> Platnick, 1987 (Araneae, Austrochilidae) with micro-computed tomography of the palpal organ. <i>ZooKeys</i> , 2013, 352, 117-125.	1.1	14
59	Sperm Dynamics in Spiders (Araneae): Ultrastructural Analysis of the Sperm Activation Process in the Garden Spider <i>Argiope bruennichi</i> (Scopoli, 1772). <i>PLoS ONE</i> , 2013, 8, e72660.	2.5	31
60	Formation of primary sperm conjugates in a haplogyne spider (Caponiidae, Araneae) with remarks on the evolution of sperm conjugation in spiders. <i>Arthropod Structure and Development</i> , 2012, 41, 561-573.	1.4	11
61	A Comparative Analysis of the Morphology and Evolution of Permanent Sperm Depletion in Spiders. <i>PLoS ONE</i> , 2011, 6, e16014.	2.5	52
62	Sperm dynamics in spiders. <i>Behavioral Ecology</i> , 2011, 22, 692-695.	2.2	64
63	One-shot genitalia are not an evolutionary dead end - Regained male polygamy in a sperm limited spider species. <i>BMC Evolutionary Biology</i> , 2011, 11, 197.	3.2	30
64	Cephalic modifications in dimorphic dwarf spiders of the genus <i>Oedothorax</i> (Erigoninae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 1.2	1.2	20
65	Scopulate hairs in male <i>Liphistius</i> spiders: probable contact chemoreceptors. <i>Journal of Arachnology</i> , 2010, 38, 599-603.	0.5	10
66	First investigation of the spermatozoa of a species of the superfamily Scorpionioidea (<i>Opisthophthalmus penrithorum</i> , Scorpionidae) with a revision of the evolutionary and phylogenetic implications of sperm structures in scorpions (Chelicerata, Scorpiones). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2010, 48, 89-101.	1.4	15
67	Live for the moment – Adaptations in the male genital system of a sexually cannibalistic spider (Theridiidae, Araneae). <i>Tissue and Cell</i> , 2010, 42, 32-36.	2.2	47
68	Spermatozoa of an Old World Ricinulei (<i>Ricinoides karschii</i> , Ricinoidae) with notes about the relationships of Ricinulei within the Arachnida. <i>Tissue and Cell</i> , 2010, 42, 383-390.	2.2	5
69	Ultrastructure of the Spermatozoa in the Spider Genus <i>Pimoidae</i> plus <i>Linyphiidae</i> (Arachnida: Araneae). <i>American Museum Novitates</i> , 2010, 3682, 1-17.	0.6	11
70	The Male Genital System of Goblin Spiders: Evidence for the Monophyly of Oonopidae (Arachnida:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 0.6	0.6	31
71	Effects of starvation on reproduction of the predacious mite <i>Neoseiulus californicus</i> (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 38 1.6	1.6	13
72	The male genital system of the New World Ricinulei (Arachnida): Ultrastructure of spermatozoa and spermiogenesis with special emphasis on its phylogenetic implications. <i>Arthropod Structure and Development</i> , 2008, 37, 396-409.	1.4	13

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73	Spermatozoa and sperm packages of the European troglodylous scorpion <i>Belisarius xambeui</i> Simon, 1879 (Troglotayosicidae, Scorpiones). <i>Tissue and Cell</i> , 2008, 40, 411-416.	2.2	11
74	Spermatozoa and spermiogenesis of <i>Liphistius</i> cf. <i>phuketensis</i> (Mesothelae, Araneae, Arachnida) with notes on phylogenetic implications. <i>Arthropod Structure and Development</i> , 2007, 36, 327-335.	1.4	20
75	Spermiogenesis in <i>Psilochorus simoni</i> (Berland, 1911) (Pholcidae, Araneae): Evidence for considerable within-family variation in sperm structure and development. <i>Zoology</i> , 2006, 109, 14-25.	1.2	22
76	Ultrastructural observations of spermatozoa of several tetragnathid spiders with phylogenetic implications (Araneae, Tetragnathidae). <i>Journal of Morphology</i> , 2006, 267, 129-151.	1.2	23
77	Complex genital system of a haplogyne spider (Arachnida, Araneae, Tetrablemmidae) indicates internal fertilization and full female control over transferred sperm. <i>Journal of Morphology</i> , 2006, 267, 166-186.	1.2	34
78	<i>Silhouettella loricatula</i> (Arachnida, Araneae, Oonopidae): A Haplogyne spider with complex female genitalia. <i>Journal of Morphology</i> , 2006, 267, 663-677.	1.2	40
79	Female genital system of the folding-trapdoor spider <i>Antrodiaetus unicolor</i> (Hentz, 1842) (Antrodiaetidae, Araneae): Ultrastructural study of form and function with notes on reproductive biology of spiders. <i>Journal of Morphology</i> , 2005, 263, 284-309.	1.2	35
80	The male genital system of the cellar spider <i>Pholcus phalangioides</i> (Fuesslin, 1775) (Pholcidae, Araneae). <i>Journal of Morphology</i> , 2005, 263, 284-309.	2.0	65
81	ON THE OCCURRENCE OF THE 9 + 0 AXONEMAL PATTERN IN THE SPERMATOZOA OF SHEETWEB SPIDERS (ARANEAE, LINYPHIIDAE). <i>Journal of Arachnology</i> , 2005, 33, 569-572.	0.5	14
82	THE SPERMATOZOA OF THE ONE-PALPED SPIDER <i>TIDARREN ARGO</i> (ARANEAE, THERIDIIDAE). <i>Journal of Arachnology</i> , 2005, 33, 562-568.	0.5	13
83	Spermatozoa and spermiogenesis of <i>Holocnemus pluchei</i> (Scopoli, 1763) (Pholcidae, Araneae). <i>Tissue and Cell</i> , 2005, 37, 489-497.	2.2	12
84	The ultrastructure of the peculiar synspermia of some Dysderidae (Araneae, Arachnida). <i>Tissue and Cell</i> , 2004, 36, 447-460.	2.2	30
85	On the occurrence of coenospermia in mesothelid spiders (Araneae: Heptathelidae). <i>Arthropod Structure and Development</i> , 2004, 33, 173-181.	1.4	34
86	Ultrastructural observations of spermatozoa and spermiogenesis in <i>Wandella orana</i> Gray, 1994 (Araneae: Filistatidae) with notes on their phylogenetic implications. <i>Tissue and Cell</i> , 2003, 35, 325-337.	2.2	25
87	Fossils constrain biogeographical history in a clade of flattened spiders with transcontinental distribution. <i>Journal of Biogeography</i> , 0, , .	3.0	3
88	The evolution and function of spider feet (Araneae: Arachnida): multiple acquisitions of distal articulations. <i>Zoological Journal of the Linnean Society</i> , 0, , .	2.3	6
89	Take a deep breath! The evolution of the respiratory system of symphytognathoid spiders (Araneae, Arachnida). <i>Journal of Morphology</i> , 2004, 263, 284-309.	1.6	4