

# 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  
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92  
all docs

92  
docs citations

92  
times ranked

1266  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Extreme convergence in egg-laying strategy across insect orders. <i>Scientific Reports</i> , 2015, 5, 7825.	3.3	86
3	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
4	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
5	The male genital system of the cellar spider <i>Pholcus phalangioides</i> (Fuesslin, 1775) (Pholcidae). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i>	2.0	65
6	Sperm dynamics in spiders. <i>Behavioral Ecology</i> , 2011, 22, 692-695.	2.2	64
7	A Comparative Analysis of the Morphology and Evolution of Permanent Sperm Depletion in Spiders. <i>PLoS ONE</i> , 2011, 6, e16014.	2.5	52
8	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
9	Record breaking achievements by spiders and the scientists who study them. <i>PeerJ</i> , 2017, 5, e3972.	2.0	42
10	<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
11	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
12	On the occurrence of coenospermia in mesothelid spiders (Araneae: Heptathelidae). <i>Arthropod Structure and Development</i> , 2004, 33, 173-181.	1.4	34
13	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
14	The Male Genital System of Goblin Spiders: Evidence for the Monophyly of Oonopidae (Arachnida: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.6	31
15	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
16	The ultrastructure of the peculiar synspermia of some Dysderidae (Araneae, Arachnida). <i>Tissue and Cell</i> , 2004, 36, 447-460.	2.2	30
17	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
18	Calculating structural complexity in phylogenies using ancestral ontologies. <i>Cladistics</i> , 2014, 30, 635-649.	3.3	30

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19	The World Spider Trait database: a centralized global open repository for curated data on spider traits. Database: the Journal of Biological Databases and Curation, 2021, 2021, .	3.0	30
20	Ultrastructural observations of spermatozoa and spermiogenesis in <i>Wandella orana</i> Gray, 1994 (Araneae: Filistatidae) with notes on their phylogenetic implications. Tissue and Cell, 2003, 35, 325-337.	2.2	25
21	Evolution of aerial spider webs coincided with repeated structural optimization of silk anchorages. Evolution; International Journal of Organic Evolution, 2019, 73, 2122-2134.	2.3	25
22	Ultrastructural observations of spermatozoa of several tetragnathid spiders with phylogenetic implications (Araneae, Tetragnathidae). Journal of Morphology, 2006, 267, 129-151.	1.2	23
23	Spermiogenesis in <i>Psilochorus simoni</i> (Berland, 1911) (Pholcidae, Araneae): Evidence for considerable within-family variation in sperm structure and development. Zoology, 2006, 109, 14-25.	1.2	22
24	The enigmatic Otway odd-clawed spider ( <i>Progradungula otwayensis</i> Milledge, 1997, Gradungulidae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 palpal organ. ZooKeys, 2013, 335, 101-112.	1.1	21
25	Spermatozoa and spermiogenesis of <i>Liphistius cf. phuketensis</i> (Mesothelae, Araneae, Arachnida) with notes on phylogenetic implications. Arthropod Structure and Development, 2007, 36, 327-335.	1.4	20
26	Cephalic modifications in dimorphic dwarf spiders of the genus <i>Oedothorax</i> (Erigoninae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	1.2	20
27	Potential of X-ray micro-computed tomography for soft-bodied and gelatinous cnidarians with special emphasis on scyphozoan and cubozoan statoliths. Journal of Plankton Research, 2016, 38, 1225-1242.	1.8	20
28	Functional trade-offs in cribellate silk mediated by spinning behavior. Scientific Reports, 2019, 9, 9092.	3.3	20
29	Ultrastructure of chemoreceptive tarsal sensilla in an armored harvestman and evidence of olfaction across Laniatores (Arachnida, Opiliones). Arthropod Structure and Development, 2017, 46, 178-195.	1.4	18
30	Spermatozoa and spermiogenesis of the wolf spider <i>Schizocosa malitiosa</i> (Lycosidae, Araneae) and its functional and phylogenetic implications. Zoomorphology, 2013, 132, 11-21.	0.8	16
31	Female control of mate plugging in a female-cannibalistic spider ( <i>Micaria sociabilis</i> ). BMC Evolutionary Biology, 2015, 15, 18.	3.2	16
32	First evidence of neurons in the male copulatory organ of a spider (Arachnida, Araneae). Biology Letters, 2015, 11, 20150465.	2.3	16
33	Sensory system plasticity in a visually specialized, nocturnal spider. Scientific Reports, 2017, 7, 46627.	3.3	16
34	First investigation of the spermatozoa of a species of the superfamily Scorpionoidea ( <i>Opisthophthalmus penrithorum</i> , Scorpionidae) with a revision of the evolutionary and phylogenetic implications of sperm structures in scorpions (Chelicerata, Scorpiones). Journal of Zoological Systematics and Evolutionary Research, 2010, 48, 89-101.	1.4	15
35	Male Reproductive System of Spiders. , 2013, , 173-187.		15
36	The Spider Anatomy Ontology (SPD) – A Versatile Tool to Link Anatomy with Cross-Disciplinary Data. Diversity, 2019, 11, 202.	1.7	15

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37	ON THE OCCURRENCE OF THE 9 + 0 AXONEMAL PATTERN IN THE SPERMATOOZOA OF SHEETWEB SPIDERS (ARANEAE, LINYPHIIDAE). <i>Journal of Arachnology</i> , 2005, 33, 569-572.	0.5	14
38	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
39	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
40	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
41	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
42	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
43	THE SPERMATOOZOA OF THE ONE-PALPED SPIDER TIDARREN ARGO (ARANEAE, THERIDIIDAE). <i>Journal of Arachnology</i> , 2005, 33, 562-568.	0.5	13
44	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
45	Effects of starvation on reproduction of the predacious mite <i>Neoseiulus californicus</i> (Acari: Tj ETQq1 1 0.784314 rgBT / Overlock 10 T	1.6	13
46	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
47	Evolutionary morphology of the hemolymph vascular system of basal araneomorph spiders (Araneae: Tj ETQq1 1 0.784314 rgBT / Overlock 10 T	1.4	13
48	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
49	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, Tj ETQq1 1 0.784314 rgBT / Overlock 10 T	1.4	13
50	Spermatozoa and spermiogenesis of <i>Holocnemus pluchei</i> (Scopoli, 1763) (Pholcidae, Araneae). <i>Tissue and Cell</i> , 2005, 37, 489-497.	2.2	12
51	Mating system does not predict permanent sperm depletion in black widow spiders. <i>Evolution &amp; Development</i> , 2013, 15, 205-212.	2.0	12
52	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
53	Ultrastructure of the Spermatozoa in the Spider Genus <i>Pimoida</i> : New Evidence for the Monophyly of Pimoidae plus Linyphiidae (Arachnida: Araneae). <i>American Museum Novitates</i> , 2010, 3682, 1-17.	0.6	11
54	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

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55	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. PLoS ONE, 2019, 14, e0224249.	2.5	11
56	The innervation of the male copulatory organ of spiders (Araneae) – a comparative analysis. Frontiers in Zoology, 2019, 16, 39.	2.0	11
57	Scopulate hairs in male <i>Liphistius</i> spiders: probable contact chemoreceptors. Journal of Arachnology, 2010, 38, 599-603.	0.5	10
58	Factors affecting lifespan in bird-eating spiders (Arachnida: Mygalomorphae, Theraphosidae) – A multi-species approach. Zoologischer Anzeiger, 2013, 253, 126-136.	0.9	9
59	Serial Block-Face Imaging and its Potential for Reconstructing Diminutive Cell Systems: A Case Study from Arthropods. Microscopy and Microanalysis, 2014, 20, 946-955.	0.4	9
60	Putative thermo-/hygroreceptive tarsal sensilla on the sensory legs of an armored harvestman (Arachnida, Opiliones). Zoologischer Anzeiger, 2017, 270, 81-97.	0.9	8
61	Copulatory mechanics in the wolf spider <i>Agalenocosa pirty</i> reveals a hidden diversity of locking systems in Lycosidae (Araneae). Journal of Morphology, 2020, 281, 250-257.	1.2	8
62	The morphology of mating plugs and its formation in scorpions: Implications for intersexual participation. Journal of Morphology, 2020, 281, 620-635.	1.2	8
63	Natural history collections recapitulate 200 years of faunal change. Royal Society Open Science, 2021, 8, 201983.	2.4	8
64	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. Fossil Record, 2019, 22, 31-44.	1.4	8
65	Cephalic secretion release in the male dwarf spider <i>Oedothorax retusus</i> (Linyphiidae: Erigoninae): An ultrastructural analysis. Arthropod Structure and Development, 2013, 42, 477-482.	1.4	7
66	Evolutionary Morphology of the Primary Male Reproductive System and Spermatozoa of Goblin Spiders (Oonopidae; Araneae). Bulletin of the American Museum of Natural History, 2015, 396, 1-72.	3.4	7
67	Complex epidermal organs of <i>Phascolion</i> (Sipuncula): insights into the evolution of bimodal secretory cells in annelids. Acta Zoologica, 2015, 96, 343-374.	0.8	7
68	Recluse spiders produce flattened silk rapidly using a highly modified, self-sufficient spinning apparatus. Journal of Zoology, 2017, 303, 27-35.	1.7	6
69	The first fossil pycnocheiridiine pseudoscorpion (Pseudoscorpiones: Cheiridiidae: Procheiridium gen.) Tj ETQq1 1 0.784314 rgBT /Overbor	0.5	6
70	Evolution of Silk Anchor Structure as the Joint Effect of Spinning Behavior and Spinneret Morphology. Integrative and Comparative Biology, 2021, 61, 1411-1431.	2.0	6
71	The evolution and function of spider feet (Araneae: Arachnida): multiple acquisitions of distal articulations. Zoological Journal of the Linnean Society, 0, , .	2.3	6
72	Spermatozoa of an Old World Ricinulei ( <i>Ricinoides karschii</i> , Ricinoidae) with notes about the relationships of Ricinulei within the Arachnida. Tissue and Cell, 2010, 42, 383-390.	2.2	5

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73	Deciphering genital anatomy of rare, delicate and precious specimens: first study of two type specimens of mayflies using micro-computed X-ray tomography (Ephemeroptera;) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf50 737 Tf		
74	Lost and found – Fritz MÅ¼ller’s type material of <i>Glossiphonia verrucata</i> (Fr. MÅ¼ller, 1844) (Hirudinida,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf50 737 Tf Systematics, 2018, 2, 163-168.	0.7	5
75	Re-description of <i>Xysticus bimaculatus</i> L. Koch, 1867 (Araneae, Thomisidae) and characterization of its subsocial lifestyle. ZooKeys, 2014, 427, 1-19.	1.1	4
76	Morphological evidence for limited sperm production in the enigmatic Tasmanian cave spider <i>Hickmania troglodytes</i> (Austrochilidae, Araneae). Invertebrate Biology, 2014, 133, 180-187.	0.9	4
77	The first record of caeculid mites from the Cretaceous amber of Myanmar with notes on the phylogeny of the family. Zootaxa, 2019, 4647, 23-43.	0.5	4
78	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. Zoologischer Anzeiger, 2021, 292, 240-260.	0.9	4
79	Web-building behavior of the odd-clawed spider <i>Progradungula otwayensis</i> (Araneae: Gradungulidae) and implications for the evolution of combing behavior in spiders. Journal of Arachnology, 2019, 47, 299.	0.5	4
80	Take a deep breath – The evolution of the respiratory system of symphytognathoid spiders (Araneae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf50 737 Tf	1.6	4
81	Female genital morphology and sperm storage in the velvet spider <i>Eresus kollari</i> (Araneae;) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf50 737 Tf	0.5	3
82	Transition from monogyny to polygyny in <i>Nephila senegalensis</i> (Araneae: Nephilidae) is not accompanied by increased investment in sperm. Biological Journal of the Linnean Society, 2016, 119, 1027-1035.	1.6	3
83	Fossils constrain biogeographical history in a clade of flattened spiders with transcontinental distribution. Journal of Biogeography, 0, , .	3.0	3
84	Micro-Computed Tomography Reveals a Remarkable Twin Intromittent Organ in Spiders – A Novelty for Arachnids With Direct Sperm Transfer. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	3
85	Notes on fossil Bdelloidea 1: the first snout mite (Acariformes: Bdellidae;) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf50 737 Tf Acarology, 2020, 25, 1754-1764.	0.5	2
86	Cretolixon – a remarkable new genus of rhopalosomatid wasps (Hymenoptera: Vespoidea: Rhopalosomatidae) from chemically tested, mid-Cretaceous Burmese (Kachin) amber supports the monophyly of Rhopalosomatinae. Fossil Record, 2020, 23, 215-236.	1.4	2
87	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. Zootaxa, 2017, 4312, 323.	0.5	1
88	Irreversible impact of early thermal conditions: an integrative study of developmental plasticity linked to mobility in a butterfly species. Journal of Experimental Biology, 2022, 225, .	1.7	1
89	GREIFSWALD: The Zoological Museum of the University Greifswald: Past, Present, and Future. Natural History Collections, 2018, , 397-404.	0.1	0