Jonas O Wolff

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8294556/jonas-o-wolff-publications-by-year.pdf
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67 papers	807 citations	17 h-index	25 g-index
71 ext. papers	967 ext. citations	2.5 avg, IF	4.83 L-index

#	Paper	IF	Citations
67	Cerotegument microstructure of whip spiders (Amblypygi: Euamblypygi Weygoldt, 1996) reveals characters for systematics from family to species level.. *Journal of Morphology*, **2022**,	1.6	1
66	Nutritionally induced nanoscale variations in spider silk structural and mechanical properties. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 125, 104873	4.1	3
65	Adhesive Droplets of Glowworm Snares (Keroplatidae: Arachnocampa spp.) Are a Complex Mix of Organic Compounds. *Frontiers in Mechanical Engineering*, **2021**, 7,	2.6	2
64	Fine structure of the epicuticular secretion coat and associated glands of Pedipalpi and Palpigradi (Arachnida). *Journal of Morphology*, **2021**, 282, 1158-1169	1.6	2
63	Evolutionary kinematics of spinneret movements for rapid silk thread anchorage in spiders. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2021**, 207, 141-152	2.3	4
62	Robust substrate anchorages of silk lines with extensible nano-fibres. *Soft Matter*, **2021**, 17, 7903-7913	3.6	
61	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,	5	4
60	Evolution of Silk Anchor Structure as the Joint Effect of Spinning Behavior and Spinneret Morphology. *Integrative and Comparative Biology*, **2021**, 61, 1411-1431	2.8	2
59	Building behavior does not drive rates of phenotypic evolution in spiders. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
58	Strong and Tough Silk for Resilient Attachment Discs: The Mechanical Properties of Piriform Silk in the Spider Cupiennius salei (Keyserling, 1877). *Frontiers in Materials*, **2020**, 7,	4	13
57	The Evolution of Dragline Initiation in Spiders: Multiple Transitions from Multi- to Single-Gland Usage. *Diversity*, **2020**, 12, 4	2.5	3
56	Towards establishment of a centralized spider traits database. *Journal of Arachnology*, **2020**, 48,	1.1	8
55	A global database for metacommunity ecology, integrating species, traits, environment and space. *Scientific Data*, **2020**, 7, 6	8.2	10
54	Limits of piriform silk adhesion-similar effects of substrate surface polarity on silk anchor performance in two spider species with disparate microhabitat use. *Die Naturwissenschaften*, **2020**, 107, 31	2	4
53	Amblypygid-fungal interactions: The whip spider exoskeleton as a substrate for fungal growth. *Fungal Biology*, **2019**, 123, 497-506	2.8	3
52	Zooplankters' nightmare: The fast and efficient catching basket of larval phantom midges (Diptera: Chaoborus). *PLoS ONE*, **2019**, 14, e0214013	3.7	11
51	Ultrastructure of spider thread anchorages. *Journal of Morphology*, **2019**, 280, 534-543	1.6	8

50	Evolution of aerial spider webs coincided with repeated structural optimization of silk anchorages. *Evolution; International Journal of Organic Evolution*, **2019**, 73, 2122-2134	3.8	13
49	Strike kinematics in the whip spider Charon sp. (Amblypygi: Charontidae). *Journal of Arachnology*, **2019**, 47, 260	1.1	4
48	Traction reinforcement in prehensile feet of harvestmen (Arachnida, Opiliones). *Journal of Experimental Biology*, **2019**, 222,	3	1
47	Adhesion and friction in hunting spiders: The effect of contact splitting on their attachment ability. *Zoologischer Anzeiger*, **2018**, 273, 231-239	1.1	7
46	Plastic material investment in load-bearing silk attachments in spiders. *Zoology*, **2018**, 131, 45-47	1.7	5
45	Three-dimensional printing spiders: back-and-forth glue application yields silk anchorages with high pull-off resistance under varying loading situations. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	23
44	Stygophrynus orientalis sp. nov. (Amblypygi: Charontidae) from Indonesia with the description of a remarkable spermatophore. *Zootaxa*, **2017**, 4232, zootaxa.4232.3.8	0.5	6
43	Strength of silk attachment to leaves in the tea bagworm (Lepidoptera, Psychidae). *Journal of the Royal Society Interface*, **2017**, 14,	4.1	7
42	Hunting with sticky tape: functional shift in silk glands of araneophagous ground spiders (Gnaphosidae). *Journal of Experimental Biology*, **2017**, 220, 2250-2259	3	22
41	Sexual dimorphism in the attachment ability of the ladybird beetle Coccinella septempunctata on soft substrates. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	13
40	Clarity of objectives and working principles enhances the success of biomimetic programs. *Bioinspiration and Biomimetics*, **2017**, 12, 051001	2.6	21
39	Distinct spinning patterns gain differentiated loading tolerance of silk thread anchorages in spiders with different ecology. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	10
38	Impact of Ambient Humidity on Traction Forces in Ladybird Beetles (Coccinella septempunctata). *Biologically-inspired Systems*, **2017**, 21-32	0.7	0
37	Effect of Substrate Stiffness on the Attachment Ability in Ladybird Beetles Coccinella septempunctata. *Biologically-inspired Systems*, **2017**, 47-61	0.7	1
36	Structural Effects of Glue Application in Spiders□What Can We Learn from Silk Anchors?. *Biologically-inspired Systems*, **2017**, 63-80	0.7	6
35	Numerical simulation of colloidal self-assembly of super-hydrophobic arachnid cerotegument structures. *Journal of Theoretical Biology*, **2017**, 430, 1-8	2.3	14
34	The water-repellent cerotegument of whip-spiders (Arachnida: Amblypygi). *Arthropod Structure and Development*, **2017**, 46, 116-129	1.8	9
33	Adhesive Secretions in Harvestmen (Arachnida: Opiliones) **2016**, 281-301		4

32	Influence of ambient humidity on the attachment ability of ladybird beetles (). *Beilstein Journal of Nanotechnology*, **2016**, 7, 1322-1329	3	20
31	The evolution of pedipalps and glandular hairs as predatory devices in harvestmen (Arachnida, Opiliones). *Zoological Journal of the Linnean Society*, **2016**, 177, 558-601	2.4	22
30	Whip spiders (Amblypygi) become water-repellent by a colloidal secretion that self-assembles into hierarchical microstructures. *Zoological Letters*, **2016**, 2, 23	3	9
29	Attachment Structures and Adhesive Secretions in Arachnids. *Biologically-inspired Systems*, **2016**,	0.7	39
28	Mushroom-Shaped Microstructures. *Biologically-inspired Systems*, **2016**, 79-86	0.7	1
27	Adhesive Secretions. *Biologically-inspired Systems*, **2016**, 117-140	0.7	2
26	Comparative Contact Mechanics. *Biologically-inspired Systems*, **2016**, 153-162	0.7	
25	Biomimetics: What Can We Learn From Arachnids?. *Biologically-inspired Systems*, **2016**, 163-172	0.7	
24	Mechanical Attachment Devices. *Biologically-inspired Systems*, **2016**, 25-52	0.7	1
23	Tape- and Spatula-Shaped Microstructures. *Biologically-inspired Systems*, **2016**, 53-70	0.7	1
22	Nano-fibres. *Biologically-inspired Systems*, **2016**, 71-78	0.7	
21	Soft Adhesive Pads. *Biologically-inspired Systems*, **2016**, 95-116	0.7	
20	Biological Functions and Evolutionary Aspects. *Biologically-inspired Systems*, **2016**, 141-151	0.7	
19	Evolution of hyperflexible joints in sticky prey capture appendages of harvestmen (Arachnida, Opiliones). *Organisms Diversity and Evolution*, **2016**, 16, 549-557	1.7	6
18	Spiderሀ super-glue: thread anchors are composite adhesives with synergistic hierarchical organization. *Soft Matter*, **2015**, 11, 2394-403	3.6	61
17	Adhesive pad differentiation in Drosophila melanogaster depends on the Polycomb group gene Su(z)2. *Journal of Experimental Biology*, **2015**, 218, 1159-65	3	3
16	How to stay on mummyሀ back: Morphological and functional changes of the pretarsus in arachnid postembryonic stages. *Arthropod Structure and Development*, **2015**, 44, 301-12	1.8	17
15	Functional anatomy of the pretarsus in whip spiders (Arachnida, Amblypygi). *Arthropod Structure and Development*, **2015**, 44, 524-40	1.8	14

14	Hunting Without a Web: How Lycosoid Spiders Subdue their Prey. *Ethology*, **2015**, 121, 1166-1177	1.7	18
13	A new species of the South East Asian genus Sarax Simon, 1892 (Arachnida: Amblypygi: Charinidae) and synonymization of Sarax mediterraneus Delle Cave, 1986. *Zootaxa*, **2015**, 4012, 542-52	0.5	9
12	Adhesive foot pads: an adaptation to climbing? An ecological survey in hunting spiders. *Zoology*, **2015**, 118, 1-7	1.7	14
11	The whole is more than the sum of all its parts: collective effect of spider attachment organs. *Journal of Experimental Biology*, **2014**, 217, 222-4	3	35
10	Composition and substrate-dependent strength of the silken attachment discs in spiders. *Journal of the Royal Society Interface*, **2014**, 11, 20140477	4.1	31
9	Description ofSarax buxtoni(Gravely 1915) (Arachnida: Amblypygi: Charinidae) and a new case of parthenogenesis in Amblypygi from Singapore. *Journal of Arachnology*, **2014**, 42, 233-239	1.1	12
8	Gluing the □unwettable□soil-dwelling harvestmen use viscoelastic fluids for capturing springtails. *Journal of Experimental Biology*, **2014**, 217, 3535-44	3	28
7	How to Pass the Gap □Functional Morphology and Biomechanics of Spider Bridging Threads. *Biologically-inspired Systems*, **2014**, 165-177	0.7	8
6	Radial arrangement of Janus-like setae permits friction control in spiders. *Scientific Reports*, **2013**, 3, 1101	4.9	35
5	The great silk alternative: multiple co-evolution of web loss and sticky hairs in spiders. *PLoS ONE*, **2013**, 8, e62682	3.7	34
4	Comparative morphology of pretarsal scopulae in eleven spider families. *Arthropod Structure and Development*, **2012**, 41, 419-33	1.8	26
3	The influence of humidity on the attachment ability of the spider Philodromus dispar (Araneae, Philodromidae). *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 139-43	4.4	45
2	Surface roughness effects on attachment ability of the spider Philodromus dispar (Araneae, Philodromidae). *Journal of Experimental Biology*, **2012**, 215, 179-84	3	65
1	The evolution and function of spider feet (Araneae: Arachnida): multiple acquisitions of distal articulations. *Zoological Journal of the Linnean Society*,	2.4	5