

# Jonas O Wolff

## List of Publications by Citations

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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	Surface roughness effects on attachment ability of the spider <i>Philodromus dispar</i> (Araneae, Philodromidae). <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 179-84	3	65
66	Spider's super-glue: thread anchors are composite adhesives with synergistic hierarchical organization. <i>Soft Matter</i> , <b>2015</b> , 11, 2394-403	3.6	61
65	The influence of humidity on the attachment ability of the spider <i>Philodromus dispar</i> (Araneae, Philodromidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 139-43	4.4	45
64	Attachment Structures and Adhesive Secretions in Arachnids. <i>Biologically-inspired Systems</i> , <b>2016</b> ,	0.7	39
63	The whole is more than the sum of all its parts: collective effect of spider attachment organs. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 222-4	3	35
62	Radial arrangement of Janus-like setae permits friction control in spiders. <i>Scientific Reports</i> , <b>2013</b> , 3, 1101	4.9	35
61	The great silk alternative: multiple co-evolution of web loss and sticky hairs in spiders. <i>PLoS ONE</i> , <b>2013</b> , 8, e62682	3.7	34
60	Composition and substrate-dependent strength of the silken attachment discs in spiders. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140477	4.1	31
59	Gluing the Unwetterable soil-dwelling harvestmen use viscoelastic fluids for capturing springtails. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 3535-44	3	28
58	Comparative morphology of pretarsal scopulae in eleven spider families. <i>Arthropod Structure and Development</i> , <b>2012</b> , 41, 419-33	1.8	26
57	Three-dimensional printing spiders: back-and-forth glue application yields silk anchorages with high pull-off resistance under varying loading situations. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	23
56	Hunting with sticky tape: functional shift in silk glands of araneophagous ground spiders (Gnaphosidae). <i>Journal of Experimental Biology</i> , <b>2017</b> , 220, 2250-2259	3	22
55	The evolution of pedipalps and glandular hairs as predatory devices in harvestmen (Arachnida, Opiliones). <i>Zoological Journal of the Linnean Society</i> , <b>2016</b> , 177, 558-601	2.4	22
54	Clarity of objectives and working principles enhances the success of biomimetic programs. <i>Bioinspiration and Biomimetics</i> , <b>2017</b> , 12, 051001	2.6	21
53	Influence of ambient humidity on the attachment ability of ladybird beetles (). <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 1322-1329	3	20
52	Hunting Without a Web: How Lycosoid Spiders Subdue their Prey. <i>Ethology</i> , <b>2015</b> , 121, 1166-1177	1.7	18
51	How to stay on mummy's back: Morphological and functional changes of the pretarsus in arachnid postembryonic stages. <i>Arthropod Structure and Development</i> , <b>2015</b> , 44, 301-12	1.8	17

50	Functional anatomy of the pretarsus in whip spiders (Arachnida, Amblypygi). <i>Arthropod Structure and Development</i> , <b>2015</b> , 44, 524-40	1.8	14
49	Numerical simulation of colloidal self-assembly of super-hydrophobic arachnid cerotegument structures. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 430, 1-8	2.3	14
48	Adhesive foot pads: an adaptation to climbing? An ecological survey in hunting spiders. <i>Zoology</i> , <b>2015</b> , 118, 1-7	1.7	14
47	Sexual dimorphism in the attachment ability of the ladybird beetle <i>Coccinella septempunctata</i> on soft substrates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	13
46	Strong and Tough Silk for Resilient Attachment Discs: The Mechanical Properties of Piriform Silk in the Spider <i>Cupiennius salei</i> (Keyserling, 1877). <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	13
45	Evolution of aerial spider webs coincided with repeated structural optimization of silk anchorages. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 2122-2134	3.8	13
44	Description of <i>Sarax buxtoni</i> (Gravely 1915) (Arachnida: Amblypygi: Charinidae) and a new case of parthenogenesis in Amblypygi from Singapore. <i>Journal of Arachnology</i> , <b>2014</b> , 42, 233-239	1.1	12
43	Zooplankters' nightmare: The fast and efficient catching basket of larval phantom midges (Diptera: Chaoborus). <i>PLoS ONE</i> , <b>2019</b> , 14, e0214013	3.7	11
42	Distinct spinning patterns gain differentiated loading tolerance of silk thread anchorages in spiders with different ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 284,	4.4	10
41	A global database for metacommunity ecology, integrating species, traits, environment and space. <i>Scientific Data</i> , <b>2020</b> , 7, 6	8.2	10
40	The water-repellent cerotegument of whip-spiders (Arachnida: Amblypygi). <i>Arthropod Structure and Development</i> , <b>2017</b> , 46, 116-129	1.8	9
39	A new species of the South East Asian genus <i>Sarax</i> Simon, 1892 (Arachnida: Amblypygi: Charinidae) and synonymization of <i>Sarax mediterraneus</i> Delle Cave, 1986. <i>Zootaxa</i> , <b>2015</b> , 4012, 542-52	0.5	9
38	Whip spiders (Amblypygi) become water-repellent by a colloidal secretion that self-assembles into hierarchical microstructures. <i>Zoological Letters</i> , <b>2016</b> , 2, 23	3	9
37	Ultrastructure of spider thread anchorages. <i>Journal of Morphology</i> , <b>2019</b> , 280, 534-543	1.6	8
36	Towards establishment of a centralized spider traits database. <i>Journal of Arachnology</i> , <b>2020</b> , 48,	1.1	8
35	How to Pass the Gap [Functional Morphology and Biomechanics of Spider Bridging Threads. <i>Biologically-inspired Systems</i> , <b>2014</b> , 165-177	0.7	8
34	Strength of silk attachment to leaves in the tea bagworm (Lepidoptera, Psychidae). <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	7
33	Adhesion and friction in hunting spiders: The effect of contact splitting on their attachment ability. <i>Zoologischer Anzeiger</i> , <b>2018</b> , 273, 231-239	1.1	7

32	Stygophrynus orientalis sp. nov. (Amblypygi: Charontidae) from Indonesia with the description of a remarkable spermatophore. <i>Zootaxa</i> , <b>2017</b> , 4232, zootaxa.4232.3.8	0.5	6
31	Structural Effects of Glue Application in Spiders—What Can We Learn from Silk Anchors?. <i>Biologically-inspired Systems</i> , <b>2017</b> , 63-80	0.7	6
30	Evolution of hyperflexible joints in sticky prey capture appendages of harvestmen (Arachnida, Opiliones). <i>Organisms Diversity and Evolution</i> , <b>2016</b> , 16, 549-557	1.7	6
29	The evolution and function of spider feet (Araneae: Arachnida): multiple acquisitions of distal articulations. <i>Zoological Journal of the Linnean Society</i> ,	2.4	5
28	Plastic material investment in load-bearing silk attachments in spiders. <i>Zoology</i> , <b>2018</b> , 131, 45-47	1.7	5
27	Adhesive Secretions in Harvestmen (Arachnida: Opiliones) <b>2016</b> , 281-301		4
26	Strike kinematics in the whip spider Charon sp. (Amblypygi: Charontidae). <i>Journal of Arachnology</i> , <b>2019</b> , 47, 260	1.1	4
25	Limits of piriform silk adhesion-similar effects of substrate surface polarity on silk anchor performance in two spider species with disparate microhabitat use. <i>Die Naturwissenschaften</i> , <b>2020</b> , 107, 31	2	4
24	Evolutionary kinematics of spinneret movements for rapid silk thread anchorage in spiders. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>2021</b> , 207, 141-152	1.5	4
23	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> , <b>2021</b> , 2021,	5	4
22	Amblypygid-fungal interactions: The whip spider exoskeleton as a substrate for fungal growth. <i>Fungal Biology</i> , <b>2019</b> , 123, 497-506	2.8	3
21	Adhesive pad differentiation in <i>Drosophila melanogaster</i> depends on the Polycomb group gene <i>Su(z)2</i> . <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 1159-65	3	3
20	The Evolution of Dragline Initiation in Spiders: Multiple Transitions from Multi- to Single-Gland Usage. <i>Diversity</i> , <b>2020</b> , 12, 4	2.5	3
19	Nutritionally induced nanoscale variations in spider silk structural and mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2022</b> , 125, 104873	4.1	3
18	Adhesive Droplets of Glowworm Snares (Keroplastidae: Arachnocampa spp.) Are a Complex Mix of Organic Compounds. <i>Frontiers in Mechanical Engineering</i> , <b>2021</b> , 7,	2.6	2
17	Fine structure of the epicuticular secretion coat and associated glands of Pedipalpi and Palpigradi (Arachnida). <i>Journal of Morphology</i> , <b>2021</b> , 282, 1158-1169	1.6	2
16	Adhesive Secretions. <i>Biologically-inspired Systems</i> , <b>2016</b> , 117-140	0.7	2
15	Evolution of Silk Anchor Structure as the Joint Effect of Spinning Behavior and Spinneret Morphology. <i>Integrative and Comparative Biology</i> , <b>2021</b> , 61, 1411-1431	2.8	2

14	Effect of Substrate Stiffness on the Attachment Ability in Ladybird Beetles <i>Coccinella septempunctata</i> . <i>Biologically-inspired Systems</i> , <b>2017</b> , 47-61	0.7	1
13	Cerotegument microstructure of whip spiders (Amblypygi: Euamblypygi Weygoldt, 1996) reveals characters for systematics from family to species level.. <i>Journal of Morphology</i> , <b>2022</b> ,	1.6	1
12	Mushroom-Shaped Microstructures. <i>Biologically-inspired Systems</i> , <b>2016</b> , 79-86	0.7	1
11	Mechanical Attachment Devices. <i>Biologically-inspired Systems</i> , <b>2016</b> , 25-52	0.7	1
10	Tape- and Spatula-Shaped Microstructures. <i>Biologically-inspired Systems</i> , <b>2016</b> , 53-70	0.7	1
9	Traction reinforcement in prehensile feet of harvestmen (Arachnida, Opiliones). <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	1
8	Building behavior does not drive rates of phenotypic evolution in spiders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	1
7	Impact of Ambient Humidity on Traction Forces in Ladybird Beetles ( <i>Coccinella septempunctata</i> ). <i>Biologically-inspired Systems</i> , <b>2017</b> , 21-32	0.7	0
6	Comparative Contact Mechanics. <i>Biologically-inspired Systems</i> , <b>2016</b> , 153-162	0.7	
5	Biomimetics: What Can We Learn From Arachnids?. <i>Biologically-inspired Systems</i> , <b>2016</b> , 163-172	0.7	
4	Nano-fibres. <i>Biologically-inspired Systems</i> , <b>2016</b> , 71-78	0.7	
3	Soft Adhesive Pads. <i>Biologically-inspired Systems</i> , <b>2016</b> , 95-116	0.7	
2	Biological Functions and Evolutionary Aspects. <i>Biologically-inspired Systems</i> , <b>2016</b> , 141-151	0.7	
1	Robust substrate anchorages of silk lines with extensible nano-fibres. <i>Soft Matter</i> , <b>2021</b> , 17, 7903-7913	3.6	