Jonas O Wolff

List of Publications by Year
in descending order

67	1,134	393982	454577
papers	citations	19 h-index	30 g-index

71	71	71	864
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface roughness effects on attachment ability of the spider Philodromus dispar (Araneae,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.8	74
2	Spider's super-glue: thread anchors are composite adhesives with synergistic hierarchical organization. Soft Matter, 2015, 11, 2394-2403.	1.2	71
3	The Great Silk Alternative: Multiple Co-Evolution of Web Loss and Sticky Hairs in Spiders. PLoS ONE, 2013, 8, e62682.	1.1	46
4	The influence of humidity on the attachment ability of the spiderPhilodromus dispar(Araneae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	45
5	Radial arrangement of Janus-like setae permits friction control in spiders. Scientific Reports, 2013, 3, 1101.	1.6	44
6	The whole is more than the sum of all its parts: collective effect of spider attachment organs. Journal of Experimental Biology, 2014, 217, 222-224.	0.8	38
7	Composition and substrate-dependent strength of the silken attachment discs in spiders. Journal of the Royal Society Interface, 2014, 11, 20140477.	1.5	35
8	Clarity of objectives and working principles enhances the success of biomimetic programs. Bioinspiration and Biomimetics, 2017, 12, 051001.	1.5	35
9	The evolution of pedipalps and glandular hairs as predatory devices in harvestmen (Arachnida,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.0	33
10	Hunting with sticky tape: functional shift in silk glands of araneophagous ground spiders (Gnaphosidae). Journal of Experimental Biology, 2017, 220, 2250-2259.	0.8	32
11	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, 20160783.	1.5	30
12	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, .	1.4	30
13	Gluing the â€˜unwettableâ€™: soil-dwelling harvestmen use viscoelastic fluids for capturing springtails. Journal of Experimental Biology, 2014, 217, 3535-3544.	0.8	29
14	Hunting Without a Web: How Lycosoid Spiders Subdue their Prey. Ethology, 2015, 121, 1166-1177.	0.5	29
15	Comparative morphology of pretarsal scopulae in eleven spider families. Arthropod Structure and Development, 2012, 41, 419-433.	0.8	28
16	A global database for metacommunity ecology, integrating species, traits, environment and space. Scientific Data, 2020, 7, 6.	2.4	28
17	Influence of ambient humidity on the attachment ability of ladybird beetles (Coccinella) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.5	27
18	Evolution of aerial spider webs coincided with repeated structural optimization of silk anchorages. Evolution; International Journal of Organic Evolution, 2019, 73, 2122-2134.	1.1	25

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19	How to stay on mummy's back: Morphological and functional changes of the pretarsus in arachnid postembryonic stages. Arthropod Structure and Development, 2015, 44, 301-312.	0.8	21
20	Functional anatomy of the pretarsus in whip spiders (Arachnida, Amblypygi). Arthropod Structure and Development, 2015, 44, 524-540.	0.8	19
21	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, .	1.2	19
22	Towards establishment of a centralized spider traits database. Journal of Arachnology, 2020, 48, .	0.3	18
23	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.	1.1	17
24	The water-repellent cerotegument of whip-spiders (Arachnida: Amblypygi). Arthropod Structure and Development, 2017, 46, 116-129.	0.8	17
25	Adhesive foot pads: an adaptation to climbing? An ecological survey in hunting spiders. Zoology, 2015, 118, 1-7.	0.6	16
26	Whip spiders (Amblypygi) become water-repellent by a colloidal secretion that self-assembles into hierarchical microstructures. Zoological Letters, 2016, 2, 23.	0.7	16
27	Numerical simulation of colloidal self-assembly of super-hydrophobic arachnid cerotegument structures. Journal of Theoretical Biology, 2017, 430, 1-8.	0.8	16
28	AnimalTraits - a curated animal trait database for body mass, metabolic rate and brain size. Scientific Data, 2022, 9, .	2.4	15
29	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.	0.3	14
30	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, 20171124.	1.2	14
31	Ultrastructure of spider thread anchorages. Journal of Morphology, 2019, 280, 534-543.	0.6	14
32	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.	0.2	13
33	Zooplanktersâ€™ nightmare: The fast and efficient catching basket of larval phantom midges (Diptera:) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	13
34	Adhesion and friction in hunting spiders: The effect of contact splitting on their attachment ability. Zoologischer Anzeiger, 2018, 273, 231-239.	0.4	11
35	How to Pass the Gap â€“ Functional Morphology and Biomechanics of Spider Bridging Threads. Biologically-inspired Systems, 2014, , 165-177.	0.4	11
36	Evolution of hyperflexible joints in sticky prey capture appendages of harvestmen (Arachnida,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.7	9

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37	Strike kinematics in the whip spider Charon sp. (Amblypygi: Charontidae). Journal of Arachnology, 2019, 47, 260.	0.3	9
38	Stygophrynus orientalis sp. nov. (Amblypygi: Charontidae) from Indonesia with the description of a remarkable spermatophore. Zootaxa, 2017, 4232, zootaxa.4232.3.8.	0.2	8
39	Amblypygid-fungal interactions: The whip spider exoskeleton as a substrate for fungal growth. Fungal Biology, 2019, 123, 497-506.	1.1	8
40	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.	0.7	8
41	Nutritionally induced nanoscale variations in spider silk structural and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104873.	1.5	8
42	Adhesive Secretions in Harvestmen (Arachnida: Opiliones). , 2016, , 281-301.		7
43	Strength of silk attachment to Ilex chinensis leaves in the tea bagworm Eumeta minuscula (Lepidoptera, Psychidae). Journal of the Royal Society Interface, 2017, 14, 20170007.	1.5	7
44	Structural Effects of Glue Application in Spidersâ€"What Can We Learn from Silk Anchors?. Biologically-inspired Systems, 2017, , 63-80.	0.4	7
45	Plastic material investment in load-bearing silk attachments in spiders. Zoology, 2018, 131, 45-47.	0.6	7
46	Limits of piriform silk adhesionâ€"similar effects of substrate surface polarity on silk anchor performance in two spider species with disparate microhabitat use. Die Naturwissenschaften, 2020, 107, 31.	0.6	6
47	Evolution of Silk Anchor Structure as the Joint Effect of Spinning Behavior and Spinneret Morphology. Integrative and Comparative Biology, 2021, 61, 1411-1431.	0.9	6
48	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, .	3.3	6
49	The evolution and function of spider feet (Araneae: Arachnida): multiple acquisitions of distal articulations. Zoological Journal of the Linnean Society, 0, , .	1.0	6
50	Adhesive pad differentiation in Drosophila melanogaster depends on the Polycomb group gene Su(z)2. Journal of Experimental Biology, 2015, 218, 1159-65.	0.8	5
51	The Evolution of Dragline Initiation in Spiders: Multiple Transitions from Multi- to Single-Gland Usage. Diversity, 2020, 12, 4.	0.7	5
52	Adhesive Droplets of Glowworm Snares (Keroplatidae: Arachnocampa spp.) Are a Complex Mix of Organic Compounds. Frontiers in Mechanical Engineering, 2021, 7, .	0.8	5
53	Effect of Substrate Stiffness on the Attachment Ability in Ladybird Beetles Coccinella septempunctata. Biologically-inspired Systems, 2017, , 47-61.	0.4	4
54	Locomotion and kinematics of arachnids. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2021, 207, 99-103.	0.7	4

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55	Cerotegument microstructure of whip spiders (Amblypygi: Euamblypygi Weygoldt, 1996) reveals characters for systematics from family to species level. Journal of Morphology, 2022, 283, 428-445.	0.6	4
56	Adhesive Secretions. Biologically-inspired Systems, 2016, , 117-140.	0.4	3
57	Fine structure of the epicuticular secretion coat and associated glands of Pedipalpi and Palpigradi (Arachnida). Journal of Morphology, 2021, 282, 1158-1169.	0.6	3
58	Tape- and Spatula-Shaped Microstructures. Biologically-inspired Systems, 2016, , 53-70.	0.4	2
59	Impact of Ambient Humidity on Traction Forces in Ladybird Beetles (Coccinella septempunctata). Biologically-inspired Systems, 2017, , 21-32.	0.4	2
60	Mechanical Attachment Devices. Biologically-inspired Systems, 2016, , 25-52.	0.4	1
61	Soft Adhesive Pads. Biologically-inspired Systems, 2016, , 95-116.	0.4	1
62	Traction reinforcement in prehensile feet of harvestmen (Arachnida, Opiliones). Journal of Experimental Biology, 2019, 222, .	0.8	1
63	Robust substrate anchorages of silk lines with extensible nano-fibres. Soft Matter, 2021, 17, 7903-7913.	1.2	1
64	Comparative Contact Mechanics. Biologically-inspired Systems, 2016, , 153-162.	0.4	0
65	Biomimetics: What Can We Learn From Arachnids?. Biologically-inspired Systems, 2016, , 163-172.	0.4	0
66	Nano-fibres. Biologically-inspired Systems, 2016, , 71-78.	0.4	0
67	Biological Functions and Evolutionary Aspects. Biologically-inspired Systems, 2016, , 141-151.	0.4	0