Sean J Blamires

List of Publications by Year
in descending order

53	1,093	394286	501076
papers	citations	19	28
		h-index	g-index

54	54	54	713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physicochemical Property Variation in Spider Silk: Ecology, Evolution, and Synthetic Production. Annual Review of Entomology, 2017, 62, 443-460.	5.7	89
2	Plasticity in extended phenotypes: orb web architectural responses to variations in prey parameters. Journal of Experimental Biology, 2010, 213, 3207-3212.	0.8	67
3	Direct Solvation of Glycoproteins by Salts in Spider Silk Glues Enhances Adhesion and Helps To Explain the Evolution of Modern Spider Orb Webs. Biomacromolecules, 2014, 15, 1225-1232.	2.6	65
4	Variation in Protein Intake Induces Variation in Spider Silk Expression. PLoS ONE, 2012, 7, e31626.	1.1	50
5	Mechanical Performance of Spider Silk Is Robust to Nutrient-Mediated Changes in Protein Composition. Biomacromolecules, 2015, 16, 1218-1225.	2.6	44
6	Wind induces variations in spider web geometry and sticky spiral droplet volume. Journal of Experimental Biology, 2013, 216, 3342-9.	0.8	42
7	Multiple prey cues induce foraging flexibility in a trap-building predator. Animal Behaviour, 2011, 81, 955-961.	0.8	38
8	Post-secretion processing influences spider silk performance. Journal of the Royal Society Interface, 2012, 9, 2479-2487.	1.5	37
9	Clarity of objectives and working principles enhances the success of biomimetic programs. Bioinspiration and Biomimetics, 2017, 12, 051001.	1.5	35
10	Prey protein influences growth and decoration building in the orb web spider Argiope keyserlingi. Ecological Entomology, 2009, 34, 545-550.	1.1	26
11	Nutrient Deprivation Induces Property Variations in Spider Gluey Silk. PLoS ONE, 2014, 9, e88487.	1.1	25
12	Habitat Preferences of Coastal Goannas (Varanus panoptes): Are They Exploiters of Sea Turtle Nests at Fog Bay, Australia?. Copeia, 2004, 2004, 370-377.	1.4	24
13	Why cross the web: decoration spectral properties and prey capture in an orb spider (Argiope) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.7	24
14	Multiscale mechanisms of nutritionally induced property variation in spider silks. PLoS ONE, 2018, 13, e0192005.	1.1	24
15	Multiple structures interactively influence prey capture efficiency in spider orb webs. Animal Behaviour, 2010, 80, 947-953.	0.8	23
16	Body spot coloration of a nocturnal sit-and-wait predator visually lures prey. Behavioral Ecology, 2012, 23, 69-74.	1.0	23
17	Spider Silk Biomimetics Programs to Inform the Development of New Wearable Technologies. Frontiers in Materials, 2020, 7, .	1.2	23
18	Evidence of bird dropping masquerading by a spider to avoid predators. Scientific Reports, 2015, 4, 5058.	1.6	22

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19	A re-evaluation of the formula to estimate the volume of orb web glue droplets. Journal of Arachnology, 2015, 43, 97-100.	0.3	22
20	Nanostructural and mechanical property changes to spider silk as a consequence of insecticide exposure. Chemosphere, 2017, 181, 241-249.	4.2	21
21	DNP NMR spectroscopy reveals new structures, residues and interactions in wild spider silks. Chemical Communications, 2019, 55, 4687-4690.	2.2	20
22	Environmentally induced post-spin property changes in spider silks: influences of web type, spidroin composition and ecology. Biological Journal of the Linnean Society, 2012, 106, 580-588.	0.7	19
23	Diet-induced covariation between architectural and physicochemical plasticity in an extended phenotype. Journal of Experimental Biology, 2017, 220, 876-884.	0.8	19
24	Spider web and silk performance landscapes across nutrient space. Scientific Reports, 2016, 6, 26383.	1.6	19
25	A Color-Mediated Mutualism between Two Arthropod Predators. Current Biology, 2013, 23, 172-176.	1.8	18
26	Webs: Diversity, Structure and Function. , 2017, , 137-164.		18
27	A predatorâ€™s body coloration enhances its foraging profitability by day and night. Behavioral Ecology and Sociobiology, 2014, 68, 1253-1260.	0.6	17
28	Fitness consequences of plasticity in an extended phenotype. Journal of Experimental Biology, 2018, 221, .	0.8	16
29	Population parameters and life-table analysis of two coexisting freshwater turtles: are the Bellinger River turtle populations threatened?. Wildlife Research, 2005, 32, 339.	0.7	15
30	Uncovering Spider Silk Nanocrystalline Variations That Facilitate Wind-Induced Mechanical Property Changes. Biomacromolecules, 2013, 14, 3484-3490.	2.6	15
31	Top down and bottom up selection drives variations in frequency and form of a visual signal. Scientific Reports, 2015, 5, 9543.	1.6	14
32	Evidence of Decoupling Protein Structure from Spidroin Expression in Spider Dragline Silks. International Journal of Molecular Sciences, 2016, 17, 1294.	1.8	14
33	Meta-analysis reveals materiomic relationships in major ampullate silk across the spider phylogeny. Journal of the Royal Society Interface, 2020, 17, 20200471.	1.5	14
34	Three-dimensional barricading of a predatory trap reduces predation and enhances prey capture. Behavioral Ecology and Sociobiology, 2013, 67, 709-714.	0.6	12
35	Trap barricading and decorating by a well-armored sit-and-wait predator: extra protection or prey attraction?. Behavioral Ecology and Sociobiology, 2011, 65, 2351-2359.	0.6	11
36	Nutrient-Mediated Architectural Plasticity of a Predatory Trap. PLoS ONE, 2013, 8, e54558.	1.1	11

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37	Can differential nutrient extraction explain property variations in a predatory trap?. Royal Society Open Science, 2015, 2, 140479.	1.1	11
38	Influence of Habitat and Predation on Population Dynamics of the Freshwater TurtleMyuchelys georgesi. Herpetologica, 2013, 69, 46-57.	0.2	10
39	Multifunctionality of an arthropod predatorâ€™s body coloration. Functional Ecology, 2019, 33, 1067-1075.	1.7	10
40	Adhesion of spider cribellate silk enhanced in high humidity by mechanical plasticization of the underlying fiber. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104200.	1.5	10
41	Fiddler crab spatial distributions are influenced by physiological stressors independent of sympatric interactions. Journal of Experimental Marine Biology and Ecology, 2017, 491, 19-26.	0.7	9
42	Spider silk colour covaries with thermal properties but not protein structure. Journal of the Royal Society Interface, 2019, 16, 20190199.	1.5	9
43	Prey Luring Coloration of A Nocturnal Semiâ€Aquatic Predator. Ethology, 2016, 122, 671-681.	0.5	8
44	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
45	High contrast yellow mosaic patterns are prey attractants for orbâ€weaving spiders. Functional Ecology, 2020, 34, 853-864.	1.7	7
46	Nanovoid formation induces property variation within and across individual silkworm silk threads. Journal of Materials Chemistry B, 2022, 10, 5561-5570.	2.9	7
47	Web building and silk properties functionally covary among species of wolf spider. Journal of Evolutionary Biology, 2018, 31, 968-978.	0.8	5
48	Silk physico-chemical variability and mechanical robustness facilitates intercontinental invasibility of a spider. Scientific Reports, 2019, 9, 13273.	1.6	5
49	Adhesive Droplets of Glowworm Snares (Keroplatidae: Arachnocampa spp.) Are a Complex Mix of Organic Compounds. Frontiers in Mechanical Engineering, 2021, 7, .	0.8	5
50	Photoreflectance/scattering measurements of spider silks informed by standard optics. Royal Society Open Science, 2020, 7, 192174.	1.1	4
51	Nanoscale Material Heterogeneity of Glowworm Capture Threads Revealed by AFM. Molecules, 2021, 26, 3500.	1.7	4
52	Does decoration building influence antipredator responses in an orb-web spider (Argiope keyserlingi) in its natural habitat?. Australian Journal of Zoology, 2007, 55, 1.	0.6	3
53	Making up for lost time: Biophysical constraints on the temporal abundance of two fiddler crabs in wet-dry tropical mangroves. Austral Ecology, 2016, 41, 791-796.	0.7	2