

Sean J Blamires

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

784
citations

17
h-index

25
g-index

54
ext. papers

948
ext. citations

3.9
avg, IF

4.41
L-index

#	Paper	IF	Citations
52	Nutritionally induced nanoscale variations in spider silk structural and mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 125, 104873	4.1	3
51	Adhesive Droplets of Glowworm Snares (Keroplastidae: Arachnocampa spp.) Are a Complex Mix of Organic Compounds. <i>Frontiers in Mechanical Engineering</i> , 2021 , 7,	2.6	2
50	Nanoscale Material Heterogeneity of Glowworm Capture Threads Revealed by AFM. <i>Molecules</i> , 2021 , 26,	4.8	2
49	Adhesion of spider cribellate silk enhanced in high humidity by mechanical plasticization of the underlying fiber. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 114, 104200	4.1	3
48	Spider Silk Biomimetics Programs to Inform the Development of New Wearable Technologies. <i>Frontiers in Materials</i> , 2020 , 7,	4	4
47	High contrast yellow mosaic patterns are prey attractants for orb-weaving spiders. <i>Functional Ecology</i> , 2020 , 34, 853-864	5.6	2
46	Meta-analysis reveals materiomorphic relationships in major ampullate silk across the spider phylogeny. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200471	4.1	8
45	Photoreflectance/scattering measurements of spider silks informed by standard optics. <i>Royal Society Open Science</i> , 2020 , 7, 192174	3.3	1
44	Silk physico-chemical variability and mechanical robustness facilitates intercontinental invasibility of a spider. <i>Scientific Reports</i> , 2019 , 9, 13273	4.9	3
43	Multifunctionality of an arthropod predator's body coloration. <i>Functional Ecology</i> , 2019 , 33, 1067-1075	5.6	5
42	DNP NMR spectroscopy reveals new structures, residues and interactions in wild spider silks. <i>Chemical Communications</i> , 2019 , 55, 4687-4690	5.8	13
41	Spider silk colour covaries with thermal properties but not protein structure. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190199	4.1	3
40	Web building and silk properties functionally covary among species of wolf spider. <i>Journal of Evolutionary Biology</i> , 2018 , 31, 968-978	2.3	4
39	Fitness consequences of plasticity in an extended phenotype. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	11
38	Multiscale mechanisms of nutritionally induced property variation in spider silks. <i>PLoS ONE</i> , 2018 , 13, e0192005	3.7	10
37	Nanostructural and mechanical property changes to spider silk as a consequence of insecticide exposure. <i>Chemosphere</i> , 2017 , 181, 241-249	8.4	14
36	Fiddler crab spatial distributions are influenced by physiological stressors independent of sympatric interactions. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017 , 491, 19-26	2.1	8

35	Physicochemical Property Variation in Spider Silk: Ecology, Evolution, and Synthetic Production. <i>Annual Review of Entomology</i> , 2017 , 62, 443-460	21.8	65
34	Clarity of objectives and working principles enhances the success of biomimetic programs. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 051001	2.6	21
33	Webs: Diversity, Structure and Function 2017 , 137-164		8
32	Diet-induced co-variation between architectural and physicochemical plasticity in an extended phenotype. <i>Journal of Experimental Biology</i> , 2017 , 220, 876-884	3	12
31	Making up for lost time: Biophysical constraints on the temporal abundance of two fiddler crabs in wet/dry tropical mangroves. <i>Austral Ecology</i> , 2016 , 41, 791-796	1.5	2
30	Evidence of Decoupling Protein Structure from Spidroin Expression in Spider Dragline Silks. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	10
29	Prey Luring Coloration of A Nocturnal Semi-Aquatic Predator. <i>Ethology</i> , 2016 , 122, 671-681	1.7	5
28	Spider web and silk performance landscapes across nutrient space. <i>Scientific Reports</i> , 2016 , 6, 26383	4.9	14
27	A re-evaluation of the formula to estimate the volume of orb web glue droplets. <i>Journal of Arachnology</i> , 2015 , 43, 97-100	1.1	17
26	Mechanical performance of spider silk is robust to nutrient-mediated changes in protein composition. <i>Biomacromolecules</i> , 2015 , 16, 1218-25	6.9	31
25	Top down and bottom up selection drives variations in frequency and form of a visual signal. <i>Scientific Reports</i> , 2015 , 5, 9543	4.9	7
24	Can differential nutrient extraction explain property variations in a predatory trap?. <i>Royal Society Open Science</i> , 2015 , 2, 140479	3.3	8
23	A predator's body coloration enhances its foraging profitability by day and night. <i>Behavioral Ecology and Sociobiology</i> , 2014 , 68, 1253-1260	2.5	15
22	Direct solvation of glycoproteins by salts in spider silk glues enhances adhesion and helps to explain the evolution of modern spider orb webs. <i>Biomacromolecules</i> , 2014 , 15, 1225-32	6.9	50
21	Evidence of bird dropping masquerading by a spider to avoid predators. <i>Scientific Reports</i> , 2014 , 4, 5058	4.9	16
20	Nutrient deprivation induces property variations in spider gluey silk. <i>PLoS ONE</i> , 2014 , 9, e88487	3.7	21
19	Three-dimensional barricading of a predatory trap reduces predation and enhances prey capture. <i>Behavioral Ecology and Sociobiology</i> , 2013 , 67, 709-714	2.5	10
18	Wind induces variations in spider web geometry and sticky spiral droplet volume. <i>Journal of Experimental Biology</i> , 2013 , 216, 3342-9	3	32

17	Uncovering spider silk nanocrystalline variations that facilitate wind-induced mechanical property changes. <i>Biomacromolecules</i> , 2013 , 14, 3484-90	6.9	12
16	A color-mediated mutualism between two arthropod predators. <i>Current Biology</i> , 2013 , 23, 172-6	6.3	16
15	Influence of Habitat and Predation on Population Dynamics of the Freshwater Turtle <i>Myuchelys georgesii</i> . <i>Herpetologica</i> , 2013 , 69, 46-57	1.9	7
14	Nutrient-mediated architectural plasticity of a predatory trap. <i>PLoS ONE</i> , 2013 , 8, e54558	3.7	9
13	Environmentally induced post-spin property changes in spider silks: influences of web type, spidroin composition and ecology. <i>Biological Journal of the Linnean Society</i> , 2012 , 106, 580-588	1.9	17
12	Post-secretion processing influences spider silk performance. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2479-87	4.1	30
11	Body spot coloration of a nocturnal sit-and-wait predator visually lures prey. <i>Behavioral Ecology</i> , 2012 , 23, 69-74	2.3	20
10	Variation in protein intake induces variation in spider silk expression. <i>PLoS ONE</i> , 2012 , 7, e31626	3.7	45
9	Multiple prey cues induce foraging flexibility in a trap-building predator. <i>Animal Behaviour</i> , 2011 , 81, 955-961	2.8	31
8	Trap barricading and decorating by a well-armored sit-and-wait predator: extra protection or prey attraction?. <i>Behavioral Ecology and Sociobiology</i> , 2011 , 65, 2351-2359	2.5	10
7	Plasticity in extended phenotypes: orb web architectural responses to variations in prey parameters. <i>Journal of Experimental Biology</i> , 2010 , 213, 3207-12	3	52
6	Multiple structures interactively influence prey capture efficiency in spider orb webs. <i>Animal Behaviour</i> , 2010 , 80, 947-953	2.8	17
5	Prey protein influences growth and decoration building in the orb web spider <i>Argiope keyserlingi</i> . <i>Ecological Entomology</i> , 2009 , 34, 545-550	2.1	22
4	Why cross the web: decoration spectral properties and prey capture in an orb spider (<i>Argiope keyserlingi</i>) web. <i>Biological Journal of the Linnean Society</i> , 2008 , 94, 221-229	1.9	23
3	Does decoration building influence antipredator responses in an orb-web spider (<i>Argiope keyserlingi</i>) in its natural habitat?. <i>Australian Journal of Zoology</i> , 2007 , 55, 1	0.5	3
2	Population parameters and life-table analysis of two coexisting freshwater turtles: are the Bellingen River turtle populations threatened?. <i>Wildlife Research</i> , 2005 , 32, 339	1.8	9
1	Habitat Preferences of Coastal Goannas (<i>Varanus panoptes</i>): Are They Exploiters of Sea Turtle Nests at Fog Bay, Australia?. <i>Copeia</i> , 2004 , 2004, 370-377	1.1	19