Sean J Blamires

List of Publications by Citations

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	Physicochemical Property Variation in Spider Silk: Ecology, Evolution, and Synthetic Production. *Annual Review of Entomology*, **2017**, 62, 443-460	21.8	65
51	Plasticity in extended phenotypes: orb web architectural responses to variations in prey parameters. *Journal of Experimental Biology*, **2010**, 213, 3207-12	3	52
50	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, 1225-32	6.9	50
49	Variation in protein intake induces variation in spider silk expression. *PLoS ONE*, **2012**, 7, e31626	3.7	45
48	Wind induces variations in spider web geometry and sticky spiral droplet volume. *Journal of Experimental Biology*, **2013**, 216, 3342-9	3	32
47	Mechanical performance of spider silk is robust to nutrient-mediated changes in protein composition. *Biomacromolecules*, **2015**, 16, 1218-25	6.9	31
46	Multiple prey cues induce foraging flexibility in a trap-building predator. *Animal Behaviour*, **2011**, 81, 955-961	2.8	31
45	Post-secretion processing influences spider silk performance. *Journal of the Royal Society Interface*, **2012**, 9, 2479-87	4.1	30
44	Why cross the web: decoration spectral properties and prey capture in an orb spider (Argiope keyserlingi) web. *Biological Journal of the Linnean Society*, **2008**, 94, 221-229	1.9	23
43	Prey protein influences growth and decoration building in the orb web spider Argiope keyserlingi. *Ecological Entomology*, **2009**, 34, 545-550	2.1	22
42	Clarity of objectives and working principles enhances the success of biomimetic programs. *Bioinspiration and Biomimetics*, **2017**, 12, 051001	2.6	21
41	Nutrient deprivation induces property variations in spider gluey silk. *PLoS ONE*, **2014**, 9, e88487	3.7	21
40	Body spot coloration of a nocturnal sit-and-wait predator visually lures prey. *Behavioral Ecology*, **2012**, 23, 69-74	2.3	20
39	Habitat Preferences of Coastal Goannas (Varanus panoptes): Are They Exploiters of Sea Turtle Nests at Fog Bay, Australia?. *Copeia*, **2004**, 2004, 370-377	1.1	19
38	A re-evaluation of the formula to estimate the volume of orb web glue droplets. *Journal of Arachnology*, **2015**, 43, 97-100	1.1	17
37	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	1.9	17
36	Multiple structures interactively influence prey capture efficiency in spider orb webs. *Animal Behaviour*, **2010**, 80, 947-953	2.8	17

35	A color-mediated mutualism between two arthropod predators. *Current Biology*, **2013**, 23, 172-6	6.3	16
34	Evidence of bird dropping masquerading by a spider to avoid predators. *Scientific Reports*, **2014**, 4, 5058	4.9	16
33	A predator's body coloration enhances its foraging profitability by day and night. *Behavioral Ecology and Sociobiology*, **2014**, 68, 1253-1260	2.5	15
32	Nanostructural and mechanical property changes to spider silk as a consequence of insecticide exposure. *Chemosphere*, **2017**, 181, 241-249	8.4	14
31	Spider web and silk performance landscapes across nutrient space. *Scientific Reports*, **2016**, 6, 26383	4.9	14
30	DNP NMR spectroscopy reveals new structures, residues and interactions in wild spider silks. *Chemical Communications*, **2019**, 55, 4687-4690	5.8	13
29	Uncovering spider silk nanocrystalline variations that facilitate wind-induced mechanical property changes. *Biomacromolecules*, **2013**, 14, 3484-90	6.9	12
28	Diet-induced co-variation between architectural and physicochemical plasticity in an extended phenotype. *Journal of Experimental Biology*, **2017**, 220, 876-884	3	12
27	Fitness consequences of plasticity in an extended phenotype. *Journal of Experimental Biology*, **2018**, 221,	3	11
26	Three-dimensional barricading of a predatory trap reduces predation and enhances prey capture. *Behavioral Ecology and Sociobiology*, **2013**, 67, 709-714	2.5	10
25	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	2.5	10
24	Multiscale mechanisms of nutritionally induced property variation in spider silks. *PLoS ONE*, **2018**, 13, e0192005	3.7	10
23	Evidence of Decoupling Protein Structure from Spidroin Expression in Spider Dragline Silks. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	10
22	Nutrient-mediated architectural plasticity of a predatory trap. *PLoS ONE*, **2013**, 8, e54558	3.7	9
21	Population parameters and life-table analysis of two coexisting freshwater turtles: are the Bellinger River turtle populations threatened?. *Wildlife Research*, **2005**, 32, 339	1.8	9
20	Fiddler crab spatial distributions are influenced by physiological stressors independent of sympatric interactions. *Journal of Experimental Marine Biology and Ecology*, **2017**, 491, 19-26	2.1	8
19	Webs: Diversity, Structure and Function **2017**, 137-164		8
18	Can differential nutrient extraction explain property variations in a predatory trap?. *Royal Society Open Science*, **2015**, 2, 140479	3.3	8

17	Meta-analysis reveals materiomic relationships in major ampullate silk across the spider phylogeny. *Journal of the Royal Society Interface*, **2020**, 17, 20200471	4.1	8
16	Top down and bottom up selection drives variations in frequency and form of a visual signal. *Scientific Reports*, **2015**, 5, 9543	4.9	7
15	Influence of Habitat and Predation on Population Dynamics of the Freshwater TurtleMyuchelys georgesi. *Herpetologica*, **2013**, 69, 46-57	1.9	7
14	Multifunctionality of an arthropod predator body coloration. *Functional Ecology*, **2019**, 33, 1067-1075	5.6	5
13	Prey Luring Coloration of A Nocturnal Semi-Aquatic Predator. *Ethology*, **2016**, 122, 671-681	1.7	5
12	Spider Silk Biomimetics Programs to Inform the Development of New Wearable Technologies. *Frontiers in Materials*, **2020**, 7,	4	4
11	Web building and silk properties functionally covary among species of wolf spider. *Journal of Evolutionary Biology*, **2018**, 31, 968-978	2.3	4
10	Silk physico-chemical variability and mechanical robustness facilitates intercontinental invasibility of a spider. *Scientific Reports*, **2019**, 9, 13273	4.9	3
9	Spider silk colour covaries with thermal properties but not protein structure. *Journal of the Royal Society Interface*, **2019**, 16, 20190199	4.1	3
8	Does decoration building influence antipredator responses in an orb-web spider (Argiope keyserlingi) in its natural habitat?. *Australian Journal of Zoology*, **2007**, 55, 1	0.5	3
7	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
6	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	4.1	3
5	High contrast yellow mosaic patterns are prey attractants for orb-weaving spiders. *Functional Ecology*, **2020**, 34, 853-864	5.6	2
4	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	1.5	2
3	Adhesive Droplets of Glowworm Snares (Keroplatidae: Arachnocampa spp.) Are a Complex Mix of Organic Compounds. *Frontiers in Mechanical Engineering*, **2021**, 7,	2.6	2
2	Nanoscale Material Heterogeneity of Glowworm Capture Threads Revealed by AFM. *Molecules*, **2021**, 26,	4.8	2
1	Photoreflectance/scattering measurements of spider silks informed by standard optics. *Royal Society Open Science*, **2020**, 7, 192174	3.3	1