Beth Mortimer

List of Publications by Citations

24 papers	392 citations	12 h-index	19 g-index
26 ext. papers	484 ext. citations	4.8 avg, IF	4.34 L-index

#	Paper	IF	Citations
24	Biotremology: Do physical constraints limit the propagation of vibrational information?. *Animal Behaviour*, **2017**, 130, 165-174	2.8	46
23	Forced reeling of Bombyx mori silk: separating behavior and processing conditions. *Biomacromolecules*, **2013**, 14, 3653-9	6.9	45
22	Tuning the instrument: sonic properties in the spider\'s web. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	36
21	The speed of sound in silk: linking material performance to biological function. *Advanced Materials*, **2014**, 26, 5179-83	24	35
20	Glass transitions in native silk fibres studied by dynamic mechanical thermal analysis. *Soft Matter*, **2016**, 12, 5926-36	3.6	33
19	Linking naturally and unnaturally spun silks through the forced reeling of Bombyx mori. *Acta Biomaterialia*, **2015**, 11, 247-55	10.8	32
18	Ballistic impact to access the high-rate behaviour of individual silk fibres. *Journal of the Mechanics and Physics of Solids*, **2012**, 60, 1710-1721	5	28
17	Remote monitoring of vibrational information in spider webs. *Die Naturwissenschaften*, **2018**, 105, 37	2	23
16	Classifying elephant behaviour through seismic vibrations. *Current Biology*, **2018**, 28, R547-R548	6.3	20
15	Decoding the locational information in the orb web vibrations of Araneus diadematus and Zygiella x-notata. *Journal of the Royal Society Interface*, **2019**, 16, 20190201	4.1	18
14	A Spider\'s Vibration Landscape: Adaptations to Promote Vibrational Information Transfer in Orb Webs. *Integrative and Comparative Biology*, **2019**, 59, 1636-1645	2.8	17
13	Unpicking the signal thread of the sector web spider Zygiella x-notata. *Journal of the Royal Society Interface*, **2015**, 12, 20150633	4.1	13
12	Planthopper bugs use a fast, cyclic elastic recoil mechanism for effective vibrational communication at small body size. *PLoS Biology*, **2019**, 17, e3000155	9.7	12
11	In situ tensile tests of single silk fibres in an environmental scanning electron microscope (ESEM). *Journal of Materials Science*, **2013**, 48, 5055-5062	4.3	11
10	Vibration sensitivity found in. *Journal of Experimental Biology*, **2018**, 221,	3	6
9	The pregenital abdomen of Enicocephalomorpha and morphological evidence for different modes of communication at the dawn of heteropteran evolution. *Arthropod Structure and Development*, **2017**, 46, 843-868	1.8	5
8	Control vs. Constraint: Understanding the Mechanisms of Vibration Transmission During Material-Bound Information Transfer. *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	4

7	Functional flexibility in a spider's orb web. *Journal of Experimental Biology*, **2020**, 223,	3	3
6	On the morphology and possible function of two putative vibroacoustic mechanisms in derbid planthoppers (Hemiptera: Fulgoromorpha: Derbidae). *Arthropod Structure and Development*, **2019**, 52, 100880	1.8	2
5	On the morphology and evolution of cicadomorphan tymbal organs. *Arthropod Structure and Development*, **2020**, 55, 100918	1.8	1
4	Dynamic environments do not appear to constrain spider web building behaviour. *Die Naturwissenschaften*, **2021**, 108, 20	2	1
3	Noise matters: elephants show risk-avoidance behaviour in response to human-generated seismic cues. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20210774	4.4	1
2	Seismic localization of elephant rumbles as a monitoring approach. *Journal of the Royal Society Interface*, **2021**, 18, 20210264	4.1	0
1	Slit sense organ distribution on the legs of two species of orb-weaving spider (Araneae: Araneidae).. *Arthropod Structure and Development*, **2022**, 67, 101140	1.8	