

# Beth Mortimer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5855863/publications.pdf>

Version: 2024-02-01

25  
papers

556  
citations

687335

13  
h-index

642715

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biotremology: Do physical constraints limit the propagation of vibrational information?. <i>Animal Behaviour</i> , 2017, 130, 165-174.	1.9	62
2	Forced Reeling of <i>Bombyx mori</i> Silk: Separating Behavior and Processing Conditions. <i>Biomacromolecules</i> , 2013, 14, 3653-3659.	5.4	55
3	Tuning the instrument: sonic properties in the spider's web. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160341.	3.4	52
4	Glass transitions in native silk fibres studied by dynamic mechanical thermal analysis. <i>Soft Matter</i> , 2016, 12, 5926-5936.	2.7	44
5	The Speed of Sound in Silk: Linking Material Performance to Biological Function. <i>Advanced Materials</i> , 2014, 26, 5179-5183.	21.0	41
6	Linking naturally and unnaturally spun silks through the forced reeling of <i>Bombyx mori</i> . <i>Acta Biomaterialia</i> , 2015, 11, 247-255.	8.3	41
7	Classifying elephant behaviour through seismic vibrations. <i>Current Biology</i> , 2018, 28, R547-R548.	3.9	33
8	Ballistic impact to access the high-rate behaviour of individual silk fibres. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1710-1721.	4.8	32
9	Remote monitoring of vibrational information in spider webs. <i>Die Naturwissenschaften</i> , 2018, 105, 37.	1.6	31
10	Decoding the locational information in the orb web vibrations of <i>Araneus diadematus</i> and <i>Zygiella x-notata</i> . <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190201.	3.4	26
11	A Spider's Vibration Landscape: Adaptations to Promote Vibrational Information Transfer in Orb Webs. <i>Integrative and Comparative Biology</i> , 2019, 59, 1636-1645.	2.0	22
12	Unpicking the signal thread of the sector web spider <i>Zygiella x-notata</i> . <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150633.	3.4	21
13	Planthopper bugs use a fast, cyclic elastic recoil mechanism for effective vibrational communication at small body size. <i>PLoS Biology</i> , 2019, 17, e3000155.	5.6	18
14	In situ tensile tests of single silk fibres in an environmental scanning electron microscope (ESEM). <i>Journal of Materials Science</i> , 2013, 48, 5055-5062.	3.7	11
15	The pregenital abdomen of Enicocephalomorpha and morphological evidence for different modes of communication at the dawn of heteropteran evolution. <i>Arthropod Structure and Development</i> , 2017, 46, 843-868.	1.4	10
16	Control vs. Constraint: Understanding the Mechanisms of Vibration Transmission During Material-Bound Information Transfer. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	9
17	Vibration sensitivity found in <i>Caenorhabditis elegans</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	8
18	Seismic localization of elephant rumbles as a monitoring approach. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210264.	3.4	8

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19	Seismic savanna: machine learning for classifying wildlife and behaviours using ground-based vibration field recordings. <i>Remote Sensing in Ecology and Conservation</i> , 2022, 8, 236-250.	4.3	8
20	Functional flexibility in a spider's Orb Web. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
21	On the morphology and possible function of two putative vibroacoustic mechanisms in derbid planthoppers (Hemiptera: Fulgoromorpha: Derbidae). <i>Arthropod Structure and Development</i> , 2019, 52, 100880.	1.4	5
22	On the morphology and evolution of cicadomorph tymbal organs. <i>Arthropod Structure and Development</i> , 2020, 55, 100918.	1.4	5
23	Noise matters: elephants show risk-avoidance behaviour in response to human-generated seismic cues. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210774.	2.6	5
24	Dynamic environments do not appear to constrain spider web building behaviour. <i>Die Naturwissenschaften</i> , 2021, 108, 20.	1.6	2
25	Slit sense organ distribution on the legs of two species of orb-weaving spider (Araneae: Araneidae). <i>Arthropod Structure and Development</i> , 2022, 67, 101140.	1.4	1