

William M Kier

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,884
citations

361296

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h-index

302012

39
g-index

43
all docs

43
docs citations

43
times ranked

2925
citing authors

#	ARTICLE	IF	CITATIONS
1	Muscle force is modulated by internal pressure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2245-2247.	3.3	3
2	Specialization for rapid excitation in fast squid tentacle muscle involves action potentials absent in slow arm muscle. Journal of Experimental Biology, 2020, 223, .	0.8	5
3	Evidence that eye-facing photophores serve as a reference for counterillumination in an order of deep-sea fishes. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192918.	1.2	6
4	A Soft End Effector Inspired by Cephalopod Suckers and Augmented by a Dielectric Elastomer Actuator. Soft Robotics, 2019, 6, 356-367.	4.6	28
5	Shape, Size, and Structure Affect Obliquely Striated Muscle Function in Squid. Integrative and Comparative Biology, 2018, 58, 261-275.	0.9	4
6	The Musculature of Coleoid Cephalopod Arms and Tentacles. Frontiers in Cell and Developmental Biology, 2016, 4, 10.	1.8	71
7	Tuning of shortening speed in coleoid cephalopod muscle: no evidence for tissue-specific muscle myosin heavy chain isoforms. Invertebrate Biology, 2016, 135, 3-12.	0.3	9
8	Differences in scaling and morphology between lumbricid earthworm ecotypes. Journal of Experimental Biology, 2015, 218, 2970-8.	0.8	8
9	Scaling of the hydrostatic skeleton in the earthworm <i>Lumbricus terrestris</i> . Journal of Experimental Biology, 2014, 217, 1860-1867.	0.8	19
10	The length-force behavior and operating length range of squid muscle varies as a function of position in the mantle wall. Journal of Experimental Biology, 2014, 217, 2181-92.	0.8	15
11	Connective Tissue in Squid Mantle Is Arranged to Accommodate Strain Gradients. Biological Bulletin, 2014, 227, 1-6.	0.7	5
12	Transmural variation in the length-force relationships and in vivo operating length ranges of the mantle muscles of squid. FASEB Journal, 2013, 27, 1149.1.	0.2	0
13	Muscular tissues of the squid <i>Doryteuthis pealeii</i> express identical myosin heavy chain isoforms: an alternative mechanism for tuning contractile speed. Journal of Experimental Biology, 2012, 215, 239-246.	0.8	13
14	The diversity of hydrostatic skeletons. Journal of Experimental Biology, 2012, 215, 1247-1257.	0.8	188
15	Venom kinematics during prey capture in <i>Conus</i> : the biomechanics of a rapid injection system. Journal of Experimental Biology, 2010, 213, 673-682.	0.8	29
16	Soft robotics: Biological inspiration, state of the art, and future research. Applied Bionics and Biomechanics, 2008, 5, 99-117.	0.5	344
17	Muscle specialization in the squid motor system. Journal of Experimental Biology, 2008, 211, 164-169.	0.8	23
18	Soft Robotics: Biological Inspiration, State of the Art, and Future Research. Applied Bionics and Biomechanics, 2008, 5, 99-117.	0.5	1,168

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19	Mechanical properties of the rigid and hydrostatic skeletons of molting blue crabs, <i>Callinectes sapidus</i> Rathbun. <i>Journal of Experimental Biology</i> , 2007, 210, 4272-4278.	0.8	23
20	Electromyography of the buccal musculature of octopus (<i>Octopus bimaculoides</i>): a test of the function of the muscle articulation in support and movement. <i>Journal of Experimental Biology</i> , 2007, 210, 118-128.	0.8	29
21	The arrangement and function of octopus arm musculature and connective tissue. <i>Journal of Morphology</i> , 2007, 268, 831-843.	0.6	138
22	A pneumo-hydrostatic skeleton in land crabs. <i>Nature</i> , 2006, 440, 1005-1005.	13.7	11
23	Ontogeny of mantle musculature and implications for jet locomotion in oval squid <i>Sepioteuthis lessoniana</i> . <i>Journal of Experimental Biology</i> , 2006, 209, 433-443.	0.8	25
24	Functional morphology of the cephalopod buccal mass: A novel joint type. <i>Journal of Morphology</i> , 2005, 264, 211-222.	0.6	42
25	Continuum robot arms inspired by cephalopods. , 2005, 5804, 303.		192
26	Switching Skeletons: Hydrostatic Support in Molting Crabs. <i>Science</i> , 2003, 301, 209-210.	6.0	69
27	The Structure and Adhesive Mechanism of Octopus Suckers. <i>Integrative and Comparative Biology</i> , 2002, 42, 1146-1153.	0.9	192
28	Fast muscle in squid (<i>Loligo pealei</i>): contractile properties of a specialized muscle fibre type. <i>Journal of Experimental Biology</i> , 2002, 205, 1907-1916.	0.8	39
29	Fast muscle in squid (<i>Loligo pealei</i>): contractile properties of a specialized muscle fibre type. <i>Journal of Experimental Biology</i> , 2002, 205, 1907-16.	0.8	20
30	Ontogenetic Changes in Mantle Kinematics During Escape-Jet Locomotion in the Oval Squid, <i>Sepioteuthis lessoniana</i> Lesson, 1830. <i>Biological Bulletin</i> , 2001, 201, 154-166.	0.7	30
31	Ontogenetic Changes in Fibrous Connective Tissue Organization in the Oval Squid, <i>Sepioteuthis lessoniana</i> Lesson, 1830. <i>Biological Bulletin</i> , 2001, 201, 136-153.	0.7	21
32	EVOLUTIONARY MECHANICS OF PROTRUSIBLE TENTACLES AND TONGUES. <i>Animal Biology</i> , 2000, 50, 113-139.	0.4	20
33	Shade-seeking behaviour under polarized light by the brittlestar <i>Ophioderma Brevispinum</i> (Echinodermata: Ophiuroidea). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1999, 79, 761-763.	0.4	14
34	Damage Due to Solar Ultraviolet Radiation in the Brittlestar <i>Ophioderma Brevispinum</i> (Echinodermata: Ophiuroidea). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1998, 78, 681-684.	0.4	6
35	Muscle development in squid: Ultrastructural differentiation of a specialized muscle fiber type. , 1996, 229, 271-288.		30
36	Muscle development in squid: Ultrastructural differentiation of a specialized muscle fiber type. <i>Journal of Morphology</i> , 1996, 229, 271-288.	0.6	3

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37	Three-dimensional architecture of identified cerebral neurosecretory cells in an insect. <i>Journal of Morphology</i> , 1991, 208, 161-174.	0.6	15
38	The fin musculature of cuttlefish and squid (Mollusca, Cephalopoda): morphology and mechanics. <i>Journal of Zoology</i> , 1989, 217, 23-38.	0.8	52
39	The Arrangement and Function of Molluscan Muscle. , 1988, , 211-252.		48
40	The Functional Morphology of the Tentacle Musculature of <i>Nautilus pompilius</i> . <i>Topics in Geobiology</i> , 1987, , 257-269.	0.6	19
41	Tongues, tentacles and trunks: the biomechanics of movement in muscular-hydrostats. <i>Zoological Journal of the Linnean Society</i> , 1985, 83, 307-324.	1.0	732
42	The musculature of squid arms and tentacles: Ultrastructural evidence for functional differences. <i>Journal of Morphology</i> , 1985, 185, 223-239.	0.6	75
43	The functional morphology of the musculature of squid (Loliginidae) arms and tentacles. <i>Journal of Morphology</i> , 1982, 172, 179-192.	0.6	101