

Brooke E. Flammang

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,555
citations

361045

20
h-index

315357

38
g-index

48
all docs

48
docs citations

48
times ranked

1465
citing authors

#	ARTICLE	IF	CITATIONS
1	A biorobotic adhesive disc for underwater hitchhiking inspired by the remora suckerfish. <i>Science Robotics</i> , 2017, 2, .	9.9	200
2	A robotic fish caudal fin: effects of stiffness and motor program on locomotor performance. <i>Journal of Experimental Biology</i> , 2012, 215, 56-67.	0.8	171
3	Caudal fin shape modulation and control during acceleration, braking and backing maneuvers in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Journal of Experimental Biology</i> , 2009, 212, 277-286.	0.8	100
4	Extremely fast prey capture in pipefish is powered by elastic recoil. <i>Journal of the Royal Society Interface</i> , 2008, 5, 285-296.	1.5	89
5	Passive Robotic Models of Propulsion by the Bodies and Caudal Fins of Fish. <i>Integrative and Comparative Biology</i> , 2012, 52, 576-587.	0.9	81
6	Volumetric imaging of fish locomotion. <i>Biology Letters</i> , 2011, 7, 695-698.	1.0	75
7	Speed-dependent intrinsic caudal fin muscle recruitment during steady swimming in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 587-598.	0.8	71
8	Volumetric imaging of shark tail hydrodynamics reveals a three-dimensional dual-ring vortex wake structure. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3670-3678.	1.2	61
9	Remora attachment is enhanced by spinule friction. <i>Journal of Experimental Biology</i> , 2015, 218, 3551-8.	0.8	53
10	Functional morphology of the fin rays of teleost fishes. <i>Journal of Morphology</i> , 2013, 274, 1044-1059.	0.6	49
11	High postural costs and anaerobic metabolism during swimming support the hypothesis of a U-shaped metabolism "speed curve in fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13048-13053.	3.3	49
12	Tetrapod-like pelvic girdle in a walking cavefish. <i>Scientific Reports</i> , 2016, 6, 23711.	1.6	45
13	Pectoral fins aid in navigation of a complex environment by bluegill sunfish under sensory deprivation conditions. <i>Journal of Experimental Biology</i> , 2013, 216, 3084-3089.	0.8	38
14	Locomotion of free-swimming ghost knifefish: anal fin kinematics during four behaviors. <i>Zoology</i> , 2014, 117, 337-348.	0.6	38
15	Egg cases of the genus <i>Apristurus</i> (Chondrichthyes: Scyliorhinidae): Phylogenetic and ecological implications. <i>Zoology</i> , 2007, 110, 308-317.	0.6	29
16	Bioinspired remora adhesive disc offers insight into evolution. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 056014.	1.5	28
17	Functional morphology of the radialis muscle in shark tails. <i>Journal of Morphology</i> , 2010, 271, 340-352.	0.6	27
18	THE COMPLEX EVOLUTIONARY HISTORY OF SEEING RED: MOLECULAR PHYLOGENY AND THE EVOLUTION OF AN ADAPTIVE VISUAL SYSTEM IN DEEP-SEA DRAGONFISHES (STOMIIFORMES: STOMIIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 996-1013.	1.1	27

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19	Skating by: low energetic costs of swimming in a batoid fish. <i>Journal of Experimental Biology</i> , 2016, 219, 1804-7.	0.8	25
20	The fish tail as a derivation from axial musculoskeletal anatomy: an integrative analysis of functional morphology. <i>Zoology</i> , 2014, 117, 86-92.	0.6	23
21	An Intact Retroviral Gene Conserved in Spiny-Rayed Fishes for over 100 My. <i>Molecular Biology and Evolution</i> , 2016, 34, msw262.	3.5	21
22	Theoretical and computational fluid dynamics of an attached remora (<i>Echeneis naucrates</i>). <i>Zoology</i> , 2016, 119, 430-438.	0.6	20
23	Reproductive biology of deep-sea catsharks (Chondrichthyes: Scyliorhinidae) in the eastern North Pacific. <i>Environmental Biology of Fishes</i> , 2007, 81, 35-49.	0.4	17
24	A revision of Atlantic species of Photostomias (Teleostei: Stomiidae: Malacosteinae), with a description of a new species. <i>Ichthyological Research</i> , 2005, 52, 251-263.	0.5	16
25	Bioinspiration: Applying Mechanical Design to Experimental Biology. <i>Integrative and Comparative Biology</i> , 2011, 51, 128-132.	0.9	16
26	A Model of Interfacial Permeability for Soft Seals in Marine-Organism, Suction-Based Adhesion. <i>MRS Advances</i> , 2016, 1, 2531-2543.	0.5	16
27	Prey capture kinematics and four-bar linkages in the bay pipefish, <i>Syngnathus leptorhynchus</i> . <i>Zoology</i> , 2009, 112, 86-96.	0.6	14
28	Remora cranial vein morphology and its functional implications for attachment. <i>Scientific Reports</i> , 2017, 7, 5914.	1.6	14
29	Remoras pick where they stick on blue whales. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	14
30	Knowing when to stick: touch receptors found in the remora adhesive disc. <i>Royal Society Open Science</i> , 2020, 7, 190990.	1.1	13
31	Sucker with a fat lip: The soft tissues underlying the viscoelastic grip of remora adhesion. <i>Journal of Anatomy</i> , 2020, 237, 643-654.	0.9	13
32	Functional morphology and hydrodynamics of backward swimming in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Zoology</i> , 2016, 119, 414-420.	0.6	11
33	Skin stiffness in ray-finned fishes: Contrasting material properties between species and body regions. <i>Journal of Morphology</i> , 2018, 279, 1419-1430.	0.6	11
34	Channeling vorticity: Modeling the filter-feeding mechanism in silver carp using μ CT and 3D PIV. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	11
35	Skeletal and muscular pelvic morphology of hillstream loaches (Cypriniformes: Balitoridae). <i>Journal of Morphology</i> , 2020, 281, 1280-1295.	0.6	10
36	Building a Fish: The Biology and Engineering Behind a Bioinspired Autonomous Underwater Vehicle. <i>Marine Technology Society Journal</i> , 2017, 51, 15-22.	0.3	9

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37	A biorobotic model of the suction feeding system in largemouth bass: the roles of motor program speed and hyoid kinematics. <i>Journal of Experimental Biology</i> , 2016, 219, 2048-59.	0.8	8
38	Intraspecific and Interspecific Spatial Distribution of Three Eastern North Pacific Catshark Species and Their Egg Cases (Chondrichthyes: Scyliorhinidae). <i>Breviora</i> , 2011, 525, 1-18.	0.2	7
39	Hover kinematics and distributed pressure sensing for force control of biorobotic fins. , 2012, , .		7
40	Morphology, performance, and fluid dynamics of the crayfish escape response. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	7
41	Future Tail Tales: A Forward-Looking, Integrative Perspective on Tail Research. <i>Integrative and Comparative Biology</i> , 2021, 61, 521-537.	0.9	6
42	Evolutionary relationships of anglerfishes (Lophiiformes) reconstructed using ultraconserved elements. <i>Molecular Phylogenetics and Evolution</i> , 2022, 171, 107459.	1.2	6
43	They like to move it (move it): walking kinematics of balitorid loaches of Thailand. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	5
44	Development of a vortex generator to perturb fish locomotion. <i>Journal of Experimental Biology</i> , 2017, 220, 959-963.	0.8	2
45	The morphological basis of labriform rowing in the deep-sea Bigscale <i>Scopelogadus beanii</i> (Percomorpha: Beryciformes). <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 461, 297-305.	0.7	1
46	The role of an overlooked adductor muscle in the feeding mechanism of ray-finned fishes: Predictions from simulations of a deep-sea viperfish. <i>Zoology</i> , 2019, 135, 125678.	0.6	1
47	Parenting Through Academia as a SICB Member. <i>Integrative and Comparative Biology</i> , 2020, 60, 549-558.	0.9	0