

George Lauder

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160
papers

9,879
citations

62
h-index

94
g-index

170
ext. papers

11,676
ext. citations

5.2
avg, IF

6.74
L-index

#	Paper	IF	Citations
160	Phototactic guidance of a tissue-engineered soft-robotic ray. <i>Science</i> , 2016 , 353, 158-62	33.3	371
159	Form and function: structural analysis in evolutionary morphology. <i>Paleobiology</i> , 1981 , 7, 430-442	2.6	334
158	The hydrodynamics of eel swimming: I. Wake structure. <i>Journal of Experimental Biology</i> , 2004 , 207, 1825-31	3.1	284
157	Biomimetic shark skin: design, fabrication and hydrodynamic function. <i>Journal of Experimental Biology</i> , 2014 , 217, 1656-66	3	247
156	Fish biorobotics: kinematics and hydrodynamics of self-propulsion. <i>Journal of Experimental Biology</i> , 2007 , 210, 2767-80	3	233
155	Evolution of the feeding mechanism in primitive actinopterygian fishes: A functional anatomical analysis of Polypterus, Lepisosteus, and Amia. <i>Journal of Morphology</i> , 1980 , 163, 283-317	1.6	222
154	Passive propulsion in vortex wakes. <i>Journal of Fluid Mechanics</i> , 2006 , 549, 385	3.7	216
153	The hydrodynamic function of shark skin and two biomimetic applications. <i>Journal of Experimental Biology</i> , 2012 , 215, 785-95	3	184
152	Locomotor function of the dorsal fin in teleost fishes: experimental analysis of wake forces in sunfish. <i>Journal of Experimental Biology</i> , 2001 , 204, 2943-2958	3	171
151	Hydrodynamics of caudal fin locomotion by chub mackerel, <i>Scomber japonicus</i> (Scombridae). <i>Journal of Experimental Biology</i> , 2002 , 205, 1709-1724	3	151
150	The Suction Feeding Mechanism in Sunfishes (Lepomis): An Experimental Analysis. <i>Journal of Experimental Biology</i> , 1980 , 88, 49-72	3	151
149	Scaling the propulsive performance of heaving flexible panels. <i>Journal of Fluid Mechanics</i> , 2014 , 738, 250-267	3.7	144
148	Dorsal and anal fin function in bluegill sunfish <i>Lepomis macrochirus</i> : three-dimensional kinematics during propulsion and maneuvering. <i>Journal of Experimental Biology</i> , 2005 , 208, 2753-63	3	141
147	Hydrodynamics of a biologically inspired tandem flapping foil configuration. <i>Theoretical and Computational Fluid Dynamics</i> , 2007 , 21, 155-170	2.3	139
146	Patterns of Evolution in the Feeding Mechanism of Actinopterygian Fishes. <i>American Zoologist</i> , 1982 , 22, 275-285		135
145	Dynamics of freely swimming flexible foils. <i>Physics of Fluids</i> , 2012 , 24, 051901	4.4	133
144	Fish locomotion: recent advances and new directions. <i>Annual Review of Marine Science</i> , 2015 , 7, 521-45	15.4	130

143	A robotic fish caudal fin: effects of stiffness and motor program on locomotor performance. <i>Journal of Experimental Biology</i> , 2012 , 215, 56-67	3	125
142	Hydrodynamics of the escape response in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Journal of Experimental Biology</i> , 2008 , 211, 3359-69	3	118
141	Functional and morphological bases of trophic specialization in sunfishes (Teleostei, centrarchidae). <i>Journal of Morphology</i> , 1983 , 178, 1-21	1.6	118
140	Hydrodynamics of Undulatory Propulsion. <i>Fish Physiology</i> , 2005 , 23, 425-468	2	115
139	Functional morphology of the feeding mechanism in aquatic ambystomatid salamanders. <i>Journal of Morphology</i> , 1985 , 185, 297-326	1.6	114
138	Locomotor function of the dorsal fin in teleost fishes: experimental analysis of wake forces in sunfish. <i>Journal of Experimental Biology</i> , 2001 , 204, 2943-58	3	112
137	Learning from fish: Kinematics and experimental hydrodynamics for roboticists. <i>International Journal of Automation and Computing</i> , 2006 , 3, 325-335	3.5	110
136	How swimming fish use slow and fast muscle fibers: implications for models of vertebrate muscle recruitment. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1994 , 175, 123-31	2.3	105
135	Fish locomotion: kinematics and hydrodynamics of flexible foil-like fins. <i>Experiments in Fluids</i> , 2007 , 43, 641-653	2.5	102
134	Morphology and function of the feeding apparatus of the lungfish, <i>Lepidosiren paradoxa</i> (Dipnoi). <i>Journal of Morphology</i> , 1986 , 187, 81-108	1.6	102
133	Locomotion with flexible propulsors: I. Experimental analysis of pectoral fin swimming in sunfish. <i>Bioinspiration and Biomimetics</i> , 2006 , 1, S25-34	2.6	101
132	Computational modelling and analysis of the hydrodynamics of a highly deformable fish pectoral fin. <i>Journal of Fluid Mechanics</i> , 2010 , 645, 345-373	3.7	100
131	The mechanics of active fin-shape control in ray-finned fishes. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 243-56	4.1	98
130	Speed effects on midline kinematics during steady undulatory swimming of largemouth bass, <i>Micropterus salmoides</i> . <i>Journal of Experimental Biology</i> , 1995 , 198, 585-602	3	98
129	The effect of fin ray flexural rigidity on the propulsive forces generated by a biorobotic fish pectoral fin. <i>Journal of Experimental Biology</i> , 2010 , 213, 4043-54	3	97
128	Aquatic prey capture in ray-finned fishes: a century of progress and new directions. <i>Journal of Morphology</i> , 2001 , 248, 99-119	1.6	97
127	Locomotor function of the dorsal fin in rainbow trout: kinematic patterns and hydrodynamic forces. <i>Journal of Experimental Biology</i> , 2005 , 208, 4479-94	3	95
126	Hydrodynamic function of dorsal and anal fins in brook trout (<i>Salvelinus fontinalis</i>). <i>Journal of Experimental Biology</i> , 2007 , 210, 325-39	3	94

125	Function of the Caudal Fin During Locomotion in Fishes: Kinematics, Flow Visualization, and Evolutionary Patterns. <i>American Zoologist</i> , 2000 , 40, 101-122		93
124	Maximizing the efficiency of a flexible propulsor using experimental optimization. <i>Journal of Fluid Mechanics</i> , 2015 , 767, 430-448	3.7	90
123	Mechanical properties of a bio-inspired robotic knifefish with an undulatory propulsor. <i>Bioinspiration and Biomimetics</i> , 2011 , 6, 026004	2.6	87
122	Flexible propulsors in ground effect. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 036008	2.6	85
121	Hydrodynamics of caudal fin locomotion by chub mackerel, <i>Scomber japonicus</i> (Scombridae). <i>Journal of Experimental Biology</i> , 2002 , 205, 1709-24	3	84
120	A novel mechanism for mechanosensory-based rheotaxis in larval zebrafish. <i>Nature</i> , 2017 , 547, 445-448	50.4	83
119	Robotic Models for Studying Undulatory Locomotion in Fishes. <i>Marine Technology Society Journal</i> , 2011 , 45, 41-55	0.5	83
118	Computational analysis of vortex dynamics and performance enhancement due to body-fin and fin-fin interactions in fish-like locomotion. <i>Journal of Fluid Mechanics</i> , 2017 , 829, 65-88	3.7	82
117	Prey capture by <i>Luciocephalus pulcher</i> : implications for models of jaw protrusion in teleost fishes. <i>Environmental Biology of Fishes</i> , 1981 , 6, 257-268	1.6	78
116	Function of the heterocercal tail in sharks: quantitative wake dynamics during steady horizontal swimming and vertical maneuvering. <i>Journal of Experimental Biology</i> , 2002 , 205, 2365-2374	3	77
115	Tuna robotics: A high-frequency experimental platform exploring the performance space of swimming fishes. <i>Science Robotics</i> , 2019 , 4,	18.6	76
114	A hydrodynamic analysis of fish swimming speed: wake structure and locomotor force in slow and fast labriform swimmers. <i>Journal of Experimental Biology</i> , 2000 , 203, 2379-93	3	76
113	Passive mechanical models of fish caudal fins: effects of shape and stiffness on self-propulsion. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 036002	2.6	75
112	Bioinspiration from fish for smart material design and function. <i>Smart Materials and Structures</i> , 2011 , 20, 094014	3.4	75
111	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, 277-86	3	75
110	Biomechanics: hydrodynamic function of the shark's tail. <i>Nature</i> , 2004 , 430, 850	50.4	75
109	Hydrodynamics of the bluegill sunfish C-start escape response: three-dimensional simulations and comparison with experimental data. <i>Journal of Experimental Biology</i> , 2012 , 215, 671-84	3	74
108	Prey Capture Hydrodynamics in Fishes: Experimental Tests of Two Models. <i>Journal of Experimental Biology</i> , 1983 , 104, 1-13	3	74

107	Escaping Flatland: three-dimensional kinematics and hydrodynamics of median fins in fishes. <i>Journal of Experimental Biology</i> , 2008 , 211, 187-95	3	72
106	Functional design of the feeding mechanism in lower vertebrates: unidirectional and bidirectional flow systems in the tiger salamander. <i>Zoological Journal of the Linnean Society</i> , 1986 , 88, 277-290	2.4	72
105	Caudal Fin Locomotion in Ray-finned Fishes: Historical and Functional Analyses. <i>American Zoologist</i> , 1989 , 29, 85-102		71
104	Shark skin-inspired designs that improve aerodynamic performance. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	69
103	Functional morphology of the pectoral fins in bamboo sharks, <i>Chiloscyllium plagiosum</i> : benthic vs. pelagic station-holding. <i>Journal of Morphology</i> , 2001 , 249, 195-209	1.6	69
102	Passive robotic models of propulsion by the bodies and caudal fins of fish. <i>Integrative and Comparative Biology</i> , 2012 , 52, 576-87	2.8	67
101	Low-dimensional models and performance scaling of a highly deformable fish pectoral fin. <i>Journal of Fluid Mechanics</i> , 2009 , 631, 311-342	3.7	65
100	Function of the dorsal fin in bluegill sunfish: Motor patterns during four distinct locomotor behaviors. <i>Journal of Morphology</i> , 1996 , 228, 307-326	1.6	64
99	Hydrodynamics of swimming in stingrays: numerical simulations and the role of the leading-edge vortex. <i>Journal of Fluid Mechanics</i> , 2016 , 788, 407-443	3.7	64
98	Undulatory locomotion of flexible foils as biomimetic models for understanding fish propulsion. <i>Journal of Experimental Biology</i> , 2014 , 217, 2110-20	3	60
97	The C-start escape response of <i>Polypterus senegalus</i> : bilateral muscle activity and variation during stage 1 and 2. <i>Journal of Experimental Biology</i> , 2002 , 205, 2591-2603	3	58
96	Function of the heterocercal tail in sharks: quantitative wake dynamics during steady horizontal swimming and vertical maneuvering. <i>Journal of Experimental Biology</i> , 2002 , 205, 2365-74	3	58
95	Quantification of the wake of rainbow trout (<i>Oncorhynchus mykiss</i>) using three-dimensional stereoscopic digital particle image velocimetry. <i>Journal of Experimental Biology</i> , 2002 , 205, 3271-3279	3	55
94	Three-dimensional kinematics and wake structure of the pectoral fins during locomotion in leopard sharks <i>Triakis semifasciata</i> . <i>Journal of Experimental Biology</i> , 2000 , 203, 2261-78	3	55
93	Effects of non-uniform stiffness on the swimming performance of a passively-flexing, fish-like foil model. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 056019	2.6	53
92	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, 587-98	3	53
91	Experimental Hydrodynamics and Evolution: Function of Median Fins in Ray-finned Fishes. <i>Integrative and Comparative Biology</i> , 2002 , 42, 1009-17	2.8	53
90	Structure, biomimetics, and fluid dynamics of fish skin surfaces*. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	52

89	Ontogeny of form and function: locomotor morphology and drag in zebrafish (<i>Danio rerio</i>). <i>Journal of Morphology</i> , 2006 , 267, 1099-109	1.6	51
88	Forces, fishes, and fluids: hydrodynamic mechanisms of aquatic locomotion. <i>Physiology</i> , 2002 , 17, 235-409.8		51
87	Hydrodynamic function of biomimetic shark skin: effect of denticle pattern and spacing. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 066010	2.6	50
86	Water Flow Patterns During Prey Capture by Teleost Fishes. <i>Journal of Experimental Biology</i> , 1984 , 113, 143-150	3	49
85	Undulatory Swimming Performance and Body Stiffness Modulation in a Soft Robotic Fish-Inspired Physical Model. <i>Soft Robotics</i> , 2017 , 4, 202-210	9.2	48
84	Locomotion in scombrid fishes: visualization of flow around the caudal peduncle and finlets of the chub mackerel <i>Scomber japonicus</i> . <i>Journal of Experimental Biology</i> , 2001 , 204, 2251-2263	3	47
83	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, 3670-8	4.4	46
82	Muscle Recruitment During Terrestrial Locomotion: How Speed and Temperature Affect Fibre Type Use in a Lizard. <i>Journal of Experimental Biology</i> , 1990 , 152, 101-128	3	46
81	Rajiform locomotion: three-dimensional kinematics of the pectoral fin surface during swimming in the freshwater stingray <i>Potamotrygon orbignyi</i> . <i>Journal of Experimental Biology</i> , 2012 , 215, 3231-41	3	45
80	Swimming hydrodynamics: ten questions and the technical approaches needed to resolve them. <i>Experiments in Fluids</i> , 2011 , 51, 23-35	2.5	45
79	On the rules for aquatic locomotion. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	44
78	Robotics-inspired biology. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	43
77	Terrestrial feeding in the Mudskipper <i>Periophthalmus</i> (Pisces: Teleostei): A cineradiographic analysis. <i>Journal of Zoology</i> , 2009 , 193, 517-530	2	41
76	Biomechanics of Locomotion in Sharks, Rays, and Chimeras. <i>Marine Biology</i> , 2004 , 139-164		40
75	Functional Anatomy of Feeding in the Bluegill Sunfish, <i>Lepomis Macrochirus</i> : in Vivo Measurement of Bone Strain. <i>Journal of Experimental Biology</i> , 1980 , 84, 33-55	3	40
74	Understanding undulatory locomotion in fishes using an inertia-compensated flapping foil robotic device. <i>Bioinspiration and Biomimetics</i> , 2013 , 8, 046013	2.6	39
73	Asymmetrical Muscle Activity During Feeding in the Gar, <i>Lepisosteus Oculatus</i> . <i>Journal of Experimental Biology</i> , 1980 , 84, 17-32	3	39
72	Center of mass motion in swimming fish: effects of speed and locomotor mode during undulatory propulsion. <i>Zoology</i> , 2014 , 117, 269-81	1.7	38

71	Functional morphology of the fin rays of teleost fishes. <i>Journal of Morphology</i> , 2013 , 274, 1044-59	1.6	36
70	Control surfaces of aquatic vertebrates: active and passive design and function. <i>Journal of Experimental Biology</i> , 2017 , 220, 4351-4363	3	36
69	The ontogeny of fin function during routine turns in zebrafish <i>Danio rerio</i> . <i>Journal of Experimental Biology</i> , 2007 , 210, 3374-86	3	36
68	Accelerating fishes increase propulsive efficiency by modulating vortex ring geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13828-13833	11.5	34
67	Fish optimize sensing and respiration during undulatory swimming. <i>Nature Communications</i> , 2016 , 7, 11044	17.4	33
66	Advances in comparative physiology from high-speed imaging of animal and fluid motion. <i>Annual Review of Physiology</i> , 2008 , 70, 143-63	23.1	33
65	Understanding Fish Linear Acceleration Using an Undulatory Biorobotic Model with Soft Fluidic Elastomer Actuated Morphing Median Fins. <i>Soft Robotics</i> , 2018 , 5, 375-388	9.2	32
64	Use of biorobotic models of highly deformable fins for studying the mechanics and control of fin forces in fishes. <i>Integrative and Comparative Biology</i> , 2011 , 51, 176-89	2.8	31
63	Diversity of dermal denticle structure in sharks: Skin surface roughness and three-dimensional morphology. <i>Journal of Morphology</i> , 2018 , 279, 1132-1154	1.6	31
62	Hydrodynamic properties of biomimetic shark skin: effect of denticle size and swimming speed. <i>Bioinspiration and Biomimetics</i> , 2018 , 13, 056014	2.6	30
61	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	11.5	30
60	Functional morphology of the "tongue-bite" in the osteoglossomorph fish <i>Notopterus</i> . <i>Journal of Morphology</i> , 1989 , 202, 379-408	1.6	30
59	Three-dimensional analysis of scale morphology in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Zoology</i> , 2016 , 119, 182-195	1.7	29
58	Hydrodynamics of C-Start Escape Responses of Fish as Studied with Simple Physical Models. <i>Integrative and Comparative Biology</i> , 2015 , 55, 728-39	2.8	28
57	Locomotion of free-swimming ghost knifefish: anal fin kinematics during four behaviors. <i>Zoology</i> , 2014 , 117, 337-48	1.7	28
56	Hydrodynamics of median-fin interactions in fish-like locomotion: Effects of fin shape and movement. <i>Physics of Fluids</i> , 2020 , 32, 011902	4.4	28
55	Speciation through the lens of biomechanics: locomotion, prey capture and reproductive isolation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	27
54	Challenging zebrafish escape responses by increasing water viscosity. <i>Journal of Experimental Biology</i> , 2012 , 215, 1854-62	3	27

53	Batoid locomotion: effects of speed on pectoral fin deformation in the little skate,. <i>Journal of Experimental Biology</i> , 2017 , 220, 705-712	3	27
52	Locomotion in scombrid fishes: visualization of flow around the caudal peduncle and finlets of the chub mackerel <i>Scomber japonicus</i> . <i>Journal of Experimental Biology</i> , 2001 , 204, 2251-63	3	27
51	Tail-propelled aquatic locomotion in a theropod dinosaur. <i>Nature</i> , 2020 , 581, 67-70	50.4	26
50	Swimming Mechanics and Energetics of Elasmobranch Fishes. <i>Fish Physiology</i> , 2015 , 219-253	2	24
49	Functional regionalization of the pectoral fin of the benthic longhorn sculpin during station holding and swimming. <i>Journal of Zoology</i> , 2008 , 276, 159-167	2	24
48	Structure and function in the tail of the Pumpkinseed sunfish (<i>Lepomis gibbosus</i>). <i>Journal of Zoology</i> , 1982 , 197, 483-495	2	23
47	Pressure and Water Flow Patterns in the Respiratory Tract of the Bass (<i>Micropterus Salmoides</i>). <i>Journal of Experimental Biology</i> , 1984 , 113, 151-164	3	23
46	A Biologically Derived Pectoral Fin for Yaw Turn Manoeuvres. <i>Applied Bionics and Biomechanics</i> , 2010 , 7, 41-55	1.6	22
45	Median fin function during the escape response of bluegill sunfish (<i>Lepomis macrochirus</i>). II: Fin-ray curvature. <i>Journal of Experimental Biology</i> , 2012 , 215, 2881-90	3	22
44	A pressure-based force and torque prediction technique for the study of fish-like swimming. <i>PLoS ONE</i> , 2017 , 12, e0189225	3.7	22
43	Tuna locomotion: a computational hydrodynamic analysis of finlet function. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190590	4.1	22
42	Fish Locomotion: Biology and Robotics of Body and Fin-Based Movements. <i>Springer Tracts in Mechanical Engineering</i> , 2015 , 25-49	0.3	21
41	Median fin function during the escape response of bluegill sunfish (<i>Lepomis macrochirus</i>). I: Fin-ray orientation and movement. <i>Journal of Experimental Biology</i> , 2012 , 215, 2869-80	3	21
40	Passing the Wake: Using Multiple Fins to Shape Forces for Swimming. <i>Biomimetics</i> , 2019 , 4,	3.7	20
39	Fish-like aquatic propulsion studied using a pneumatically-actuated soft-robotic model. <i>Bioinspiration and Biomimetics</i> , 2020 , 15, 046008	2.6	20
38	Airfoil-like mechanics generate thrust on the anterior body of swimming fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10585-10592	11.5	20
37	Comparative morphology of the myomeres and axial skeleton in four genera of centrarchid fishes. <i>Journal of Morphology</i> , 1994 , 220, 185-205	1.6	20
36	Imaging biological surface topography in situ and in vivo. <i>Methods in Ecology and Evolution</i> , 2017 , 8, 1626-1638	1.7	19

35	Multi-animal pose estimation and tracking with DeepLabCut		18
34	Ontogeny of head and caudal fin shape of an apex marine predator: The tiger shark (<i>Galeocerdo cuvier</i>). <i>Journal of Morphology</i> , 2016 , 277, 556-64	1.6	18
33	Modeling red muscle power output during steady and unsteady swimming in largemouth bass. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1994 , 267, R481-8	3.2	17
32	Prey transport in the tiger salamander: Quantitative electromyography and muscle function in tetrapods. <i>The Journal of Experimental Zoology</i> , 1991 , 260, 1-17		17
31	An autonomously swimming biohybrid fish designed with human cardiac biophysics.. <i>Science</i> , 2022 , 375, 639-647	33.3	17
30	Hydrodynamic function of dorsal fins in spiny dogfish and bamboo sharks during steady swimming. <i>Journal of Experimental Biology</i> , 2017 , 220, 3967-3975	3	14
29	Tunabot Flex: a tuna-inspired robot with body flexibility improves high-performance swimming. <i>Bioinspiration and Biomimetics</i> , 2020 ,	2.6	14
28	Locomotion in scombrid fishes: morphology and kinematics of the finlets of the chub mackerel <i>Scomber japonicus</i> . <i>Journal of Experimental Biology</i> , 2000 , 203, 2247-59	3	13
27	Performance variation due to stiffness in a tuna-inspired flexible foil model. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 016011	2.6	12
26	Tunas as a high-performance fish platform for inspiring the next generation of autonomous underwater vehicles. <i>Bioinspiration and Biomimetics</i> , 2020 , 15, 035007	2.6	12
25	How smooth is a dolphin? The ridged skin of odontocetes. <i>Biology Letters</i> , 2019 , 15, 20190103	3.6	12
24	Effect of input perturbation on the performance and wake dynamics of aquatic propulsion in heaving flexible foils. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	11
23	Functional morphology and hydrodynamics of backward swimming in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Zoology</i> , 2016 , 119, 414-420	1.7	10
22	Multi-animal pose estimation, identification and tracking with DeepLabCut.. <i>Nature Methods</i> , 2022 ,	21.6	10
21	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	3	8
20	Convergence of undulatory swimming kinematics across a diversity of fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
19	The denticle surface of thresher shark tails: Three-dimensional structure and comparison to other pelagic species. <i>Journal of Morphology</i> , 2020 , 281, 938-955	1.6	6
18	Experimental morphology of the feeding mechanism in salamanders. <i>Journal of Morphology</i> , 1991 , 210, 33-44	1.6	6

17	Fish-like three-dimensional swimming with an autonomous, multi-fin, and biomimetic robot. <i>Bioinspiration and Biomimetics</i> , 2020 ,	2.6	6
16	Scale diversity in bigeye tuna (<i>Thunnus obesus</i>): Fat-filled trabecular scales made of cellular bone. <i>Journal of Morphology</i> , 2018 , 279, 828-840	1.6	5
15	Hydrodynamic advantages of in-line schooling. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	5
14	Mechanisms of anguilliform locomotion in fishes studied using simple three-dimensional physical models. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 046006	2.6	5
13	How zebrafish turn: analysis of pressure force dynamics and mechanical work. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	4
12	The Role of the Tail or Lack Thereof in the Evolution of Tetrapod Aquatic Propulsion. <i>Integrative and Comparative Biology</i> , 2021 , 61, 398-413	2.8	4
11	Tuna robotics: hydrodynamics of rapid linear accelerations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20202726	4.4	4
10	Fin-fin interactions during locomotion in a simplified biomimetic fish model. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	2
9	Development of a vortex generator to perturb fish locomotion. <i>Journal of Experimental Biology</i> , 2017 , 220, 959-963	3	1
8	Computational study of fish-shaped panel with simultaneously heaving and bending motion 2019 ,		1
7	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	1.7	1
6	Longer development provides first-feeding fish time to escape hydrodynamic constraints. <i>Journal of Morphology</i> , 2020 , 281, 956-969	1.6	1
5	Dermal Denticle Diversity in Sharks: Novel Patterns on the Interbranchial Skin.. <i>Integrative Organismal Biology</i> , 2021 , 3, obab034	2.3	1
4	Structure of supporting elements in the dorsal fin of percid fishes. <i>Journal of Morphology</i> , 2017 , 278, 1716-1725	1.6	0
3	Edward Phelps Allis: discovery of his anatomical illustrations. <i>Biological Journal of the Linnean Society</i> , 1981 , 16, 285-291	1.9	
2	A Soft Robotic Model to Study the Effects of Stiffness on Fish-Like Undulatory Swimming 2021 , 153-169		
1	Metazoan Transitions: Invasions of the Land . The Transitions of Organisms from Aquatic to Terrestrial Life. Malcolm S. Gordon and Everett C. Olson. Columbia University Press, New York, 1995. xix, 312 pp., illus. \$65 or £49.. <i>Science</i> , 1995 , 268, 1208-1208	33.3	