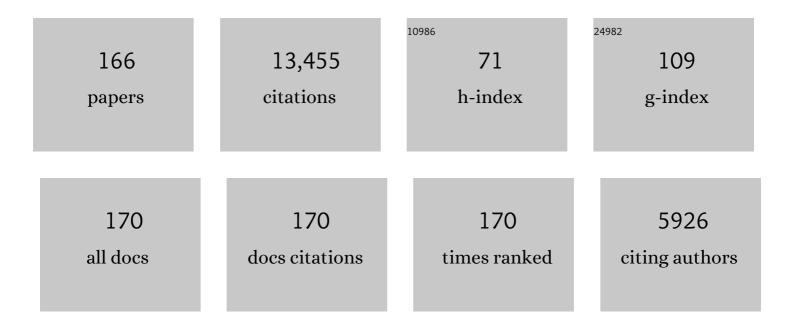
## George Lauder

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7530846/publications.pdf Version: 2024-02-01



CEORCE LAUDER

#	Article	IF	CITATIONS
1	Phototactic guidance of a tissue-engineered soft-robotic ray. Science, 2016, 353, 158-162.	12.6	534
2	Form and function: structural analysis in evolutionary morphology. Paleobiology, 1981, 7, 430-442.	2.0	382
3	The hydrodynamics of eel swimming. Journal of Experimental Biology, 2004, 207, 1825-1841.	1.7	356
4	Biomimetic shark skin: design, fabrication and hydrodynamic function. Journal of Experimental Biology, 2014, 217, 1656-1666.	1.7	340
5	Passive propulsion in vortex wakes. Journal of Fluid Mechanics, 2006, 549, 385.	3.4	308
6	Fish biorobotics: kinematics and hydrodynamics of self-propulsion. Journal of Experimental Biology, 2007, 210, 2767-2780.	1.7	289
7	Evolution of the feeding mechanism in primitive actionopterygian fishes: A functional anatomical analysis ofPolypterus, Lepisosteus, andAmia. Journal of Morphology, 1980, 163, 283-317.	1.2	252
8	The hydrodynamic function of shark skin and two biomimetic applications. Journal of Experimental Biology, 2012, 215, 785-795.	1.7	236
9	Locomotor function of the dorsal fin in teleost fishes: experimental analysis of wake forces in sunfish. Journal of Experimental Biology, 2001, 204, 2943-2958.	1.7	214
10	Fish Locomotion: Recent Advances and New Directions. Annual Review of Marine Science, 2015, 7, 521-545.	11.6	201
11	Scaling the propulsive performance of heaving flexible panels. Journal of Fluid Mechanics, 2014, 738, 250-267.	3.4	193
12	Hydrodynamics of a biologically inspired tandem flapping foil configuration. Theoretical and Computational Fluid Dynamics, 2007, 21, 155-170.	2.2	186
13	Hydrodynamics of caudal fin locomotion by chub mackerel, <i>Scomber japonicus</i> (Scombridae). Journal of Experimental Biology, 2002, 205, 1709-1724.	1.7	184
14	Patterns of Evolution in the Feeding Mechanism of Actinopterygian Fishes. American Zoologist, 1982, 22, 275-285.	0.7	176
15	A robotic fish caudal fin: effects of stiffness and motor program on locomotor performance. Journal of Experimental Biology, 2012, 215, 56-67.	1.7	171
16	The Suction Feeding Mechanism in Sunfishes ( <i>Lepomis</i> ): An Experimental Analysis. Journal of Experimental Biology, 1980, 88, 49-72.	1.7	171
17	Tuna robotics: A high-frequency experimental platform exploring the performance space of swimming fishes. Science Robotics, 2019, 4, .	17.6	169
18	Multi-animal pose estimation, identification and tracking with DeepLabCut. Nature Methods, 2022, 19, 496-504.	19.0	165

#	Article	IF	CITATIONS
19	Dorsal and anal fin function in bluegill sunfish Lepomis macrochirus: three-dimensional kinematics during propulsion and maneuvering. Journal of Experimental Biology, 2005, 208, 2753-2763.	1.7	163
20	Dynamics of freely swimming flexible foils. Physics of Fluids, 2012, 24, .	4.0	162
21	Hydrodynamics of Undulatory Propulsion. Fish Physiology, 2005, 23, 425-468.	0.8	154
22	A novel mechanism for mechanosensory-based rheotaxis in larval zebrafish. Nature, 2017, 547, 445-448.	27.8	151
23	Hydrodynamics of the escape response in bluegill sunfish, <i>Lepomis macrochirus</i> . Journal of Experimental Biology, 2008, 211, 3359-3369.	1.7	144
24	Functional and morphological bases of trophic specialization in sunfishes (Teleostei, centrarchidae). Journal of Morphology, 1983, 178, 1-21.	1.2	136
25	How swimming fish use slow and fast muscle fibers: implications for models of vertebrate muscle recruitment. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1994, 175, 123-31.	1.6	136
26	Fish locomotion: kinematics and hydrodynamics of flexible foil-like fins. Experiments in Fluids, 2007, 43, 641-653.	2.4	133
27	Learning from fish: Kinematics and experimental hydrodynamics for roboticists. International Journal of Automation and Computing, 2006, 3, 325-335.	4.5	131
28	Computational analysis of vortex dynamics and performance enhancement due to body–fin andÂfin–fin interactions in fish-like locomotion. Journal of Fluid Mechanics, 2017, 829, 65-88.	3.4	130
29	The mechanics of active fin-shape control in ray-finned fishes. Journal of the Royal Society Interface, 2007, 4, 243-256.	3.4	129
30	Functional morphology of the feeding mechanism in aquatic ambystomatid salamanders. Journal of Morphology, 1985, 185, 297-326.	1.2	127
31	Maximizing the efficiency of a flexible propulsor using experimental optimization. Journal of Fluid Mechanics, 2015, 767, 430-448.	3.4	127
32	Computational modelling and analysis of the hydrodynamics of a highly deformable fish pectoral fin. Journal of Fluid Mechanics, 2010, 645, 345-373.	3.4	125
33	The effect of fin ray flexural rigidity on the propulsive forces generated by a biorobotic fish pectoral fin. Journal of Experimental Biology, 2010, 213, 4043-4054.	1.7	125
34	Speed Effects on Midline Kinematics During Steady Undulatory Swimming of Largemouth Bass, <i>Micropterus Salmoides</i> . Journal of Experimental Biology, 1995, 198, 585-602.	1.7	123
35	Locomotion with flexible propulsors: I. Experimental analysis of pectoral fin swimming in sunfish. Bioinspiration and Biomimetics, 2006, 1, S25-S34.	2.9	121
36	Morphology and function of the feeding apparatus of the lungfish,Lepidosiren paradoxa (Dipnoi). Journal of Morphology, 1986, 187, 81-108.	1.2	120

#	Article	IF	CITATIONS
37	Mechanical properties of a bio-inspired robotic knifefish with an undulatory propulsor. Bioinspiration and Biomimetics, 2011, 6, 026004.	2.9	120
38	Locomotor function of the dorsal fin in teleost fishes: experimental analysis of wake forces in sunfish. Journal of Experimental Biology, 2001, 204, 2943-58.	1.7	120
39	Locomotor function of the dorsal fin in rainbow trout: kinematic patterns and hydrodynamic forces. Journal of Experimental Biology, 2005, 208, 4479-4494.	1.7	115
40	Hydrodynamic function of dorsal and anal fins in brook trout(Salvelinus fontinalis). Journal of Experimental Biology, 2007, 210, 325-339.	1.7	114
41	Aquatic prey capture in rayâ€finned fishes: A century of progress and new directions. Journal of Morphology, 2001, 248, 99-119.	1.2	112
42	Passive mechanical models of fish caudal fins: effects of shape and stiffness on self-propulsion. Bioinspiration and Biomimetics, 2015, 10, 036002.	2.9	112
43	Shark skin-inspired designs that improve aerodynamic performance. Journal of the Royal Society Interface, 2018, 15, 20170828.	3.4	112
44	Function of the Caudal Fin During Locomotion in Fishes: Kinematics, Flow Visualization, and Evolutionary Patterns. American Zoologist, 2000, 40, 101-122.	0.7	109
45	Robotic Models for Studying Undulatory Locomotion in Fishes. Marine Technology Society Journal, 2011, 45, 41-55.	0.4	103
46	Flexible propulsors in ground effect. Bioinspiration and Biomimetics, 2014, 9, 036008.	2.9	101
47	Caudal fin shape modulation and control during acceleration, braking and backing maneuvers in bluegill sunfish, Lepomis macrochirus. Journal of Experimental Biology, 2009, 212, 277-286.	1.7	100
48	Hydrodynamics of swimming in stingrays: numerical simulations and the role of the leading-edge vortex. Journal of Fluid Mechanics, 2016, 788, 407-443.	3.4	99
49	Hydrodynamics of the bluegill sunfish C-start escape response: three-dimensional simulations and comparison with experimental data. Journal of Experimental Biology, 2012, 215, 671-684.	1.7	97
50	Function of the heterocercal tail in sharks: quantitative wake dynamics during steady horizontal swimming and vertical maneuvering. Journal of Experimental Biology, 2002, 205, 2365-2374.	1.7	97
51	Prey capture by Luciocephalus pulcher: implications for models of jaw protrusion in teleost fishes. Environmental Biology of Fishes, 1981, 6, 257-268.	1.0	96
52	An autonomously swimming biohybrid fish designed with human cardiac biophysics. Science, 2022, 375, 639-647.	12.6	95
53	Hydrodynamics of caudal fin locomotion by chub mackerel, Scomber japonicus (Scombridae). Journal of Experimental Biology, 2002, 205, 1709-24.	1.7	94
54	Prey Capture Hydrodynamics in Fishes: Experimental Tests of Two Models. Journal of Experimental Biology, 1983, 104, 1-13.	1.7	91

#	Article	IF	CITATIONS
55	Bioinspiration from fish for smart material design and function. Smart Materials and Structures, 2011, 20, 094014.	3.5	89
56	Robotics-inspired biology. Journal of Experimental Biology, 2018, 221, .	1.7	88
57	A hydrodynamic analysis of fish swimming speed: wake structure and locomotor force in slow and fast labriform swimmers. Journal of Experimental Biology, 2000, 203, 2379-93.	1.7	87
58	Caudal Fin Locomotion in Ray-finned Fishes: Historical and Functional Analyses. American Zoologist, 1989, 29, 85-102.	0.7	86
59	Functional morphology of the pectoral fins in bamboo sharks,Chiloscyllium plagiosum: Benthic vs. Pelagic station-holding. Journal of Morphology, 2001, 249, 195-209.	1.2	86
60	Hydrodynamic function of the shark's tail. Nature, 2004, 430, 850-850.	27.8	86
61	Escaping Flatland: three-dimensional kinematics and hydrodynamics of median fins in fishes. Journal of Experimental Biology, 2008, 211, 187-195.	1.7	85
62	Effects of non-uniform stiffness on the swimming performance of a passively-flexing, fish-like foil model. Bioinspiration and Biomimetics, 2015, 10, 056019.	2.9	82
63	Undulatory Swimming Performance and Body Stiffness Modulation in a Soft Robotic Fish-Inspired Physical Model. Soft Robotics, 2017, 4, 202-210.	8.0	82
64	Passive Robotic Models of Propulsion by the Bodies and Caudal Fins of Fish. Integrative and Comparative Biology, 2012, 52, 576-587.	2.0	81
65	Forces, Fishes, and Fluids: Hydrodynamic Mechanisms of Aquatic Locomotion. Physiology, 2002, 17, 235-240.	3.1	77
66	Undulatory locomotion of flexible foils as biomimetic models for understanding fish propulsion. Journal of Experimental Biology, 2014, 217, 2110-20.	1.7	77
67	Functional design of the feeding mechanism in lower vertebrates: unidirectional and bidirectional flow systems in the tiger salamander. Zoological Journal of the Linnean Society, 1986, 88, 277-290.	2.3	76
68	Hydrodynamics of median-fin interactions in fish-like locomotion: Effects of fin shape and movement. Physics of Fluids, 2020, 32, .	4.0	75
69	Function of the dorsal fin in bluegill sunfish: Motor patterns during four distinct locomotor behaviors. , 1996, 228, 307-326.		74
70	The C-start escape response of <i>Polypterus senegalus</i> : bilateral muscle activity and variation during stage 1 and 2. Journal of Experimental Biology, 2002, 205, 2591-2603.	1.7	74
71	Low-dimensional models and performance scaling of a highly deformable fish pectoral fin. Journal of Fluid Mechanics, 2009, 631, 311-342.	3.4	73
72	Structure, biomimetics, and fluid dynamics of fish skin surfaces. Physical Review Fluids, 2016, 1, .	2.5	73

#	Article	IF	CITATIONS
73	On the rules for aquatic locomotion. Physical Review Fluids, 2017, 2, .	2.5	73
74	Speed-dependent intrinsic caudal fin muscle recruitment during steady swimming in bluegill sunfish, <i>Lepomis macrochirus</i> . Journal of Experimental Biology, 2008, 211, 587-598.	1.7	71
75	Tunabot Flex: a tuna-inspired robot with body flexibility improves high-performance swimming. Bioinspiration and Biomimetics, 2021, 16, 026019.	2.9	71
76	Hydrodynamic function of biomimetic shark skin: effect of denticle pattern and spacing. Bioinspiration and Biomimetics, 2015, 10, 066010.	2.9	68
77	Experimental Hydrodynamics and Evolution: Function of Median Fins in Ray-finned Fishes. Integrative and Comparative Biology, 2002, 42, 1009-1017.	2.0	67
78	Ontogeny of form and function: Locomotor morphology and drag in zebrafish (Danio rerio). Journal of Morphology, 2006, 267, 1099-1109.	1.2	66
79	Quantification of the wake of rainbow trout ( <i>Oncorhynchus mykiss</i> ) using three-dimensional stereoscopic digital particle image velocimetry. Journal of Experimental Biology, 2002, 205, 3271-3279.	1.7	66
80	Volumetric imaging of shark tail hydrodynamics reveals a three-dimensional dual-ring vortex wake structure. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3670-3678.	2.6	61
81	Three-dimensional kinematics and wake structure of the pectoral fins during locomotion in leopard sharks Triakis semifasciata. Journal of Experimental Biology, 2000, 203, 2261-78.	1.7	61
82	Function of the heterocercal tail in sharks: quantitative wake dynamics during steady horizontal swimming and vertical maneuvering. Journal of Experimental Biology, 2002, 205, 2365-74.	1.7	60
83	Locomotion in scombrid fishes: visualization of flow around the caudal peduncle and finlets of the chub mackerel <i>Scomber japonicus</i> . Journal of Experimental Biology, 2001, 204, 2251-2263.	1.7	58
84	Rajiform locomotion: three-dimensional kinematics of the pectoral fin surface during swimming by freshwater stingray <i>Potamotrygon orbignyi</i> . Journal of Experimental Biology, 2012, 215, 3231-41.	1.7	57
85	Control surfaces of aquatic vertebrates: active and passive design and function. Journal of Experimental Biology, 2017, 220, 4351-4363.	1.7	57
86	Understanding Fish Linear Acceleration Using an Undulatory Biorobotic Model with Soft Fluidic Elastomer Actuated Morphing Median Fins. Soft Robotics, 2018, 5, 375-388.	8.0	57
87	Tail-propelled aquatic locomotion in a theropod dinosaur. Nature, 2020, 581, 67-70.	27.8	57
88	Water Flow Patterns During Prey Capture By Teleost Fishes. Journal of Experimental Biology, 1984, 113, 143-150.	1.7	56
89	Accelerating fishes increase propulsive efficiency by modulating vortex ring geometry. Proceedings of the United States of America, 2017, 114, 13828-13833.	7.1	55
90	Hydrodynamic properties of biomimetic shark skin: effect of denticle size and swimming speed. Bioinspiration and Biomimetics, 2018, 13, 056014.	2.9	55

George Lauder

#	Article	IF	CITATIONS
91	Swimming hydrodynamics: ten questions and the technical approaches needed to resolve them. Experiments in Fluids, 2011, 51, 23-35.	2.4	54
92	Understanding undulatory locomotion in fishes using an inertia-compensated flapping foil robotic device. Bioinspiration and Biomimetics, 2013, 8, 046013.	2.9	54
93	Muscle Recruitment During Terrestrial Locomotion: How Speed and Temperature Affect Fibre Type Use in a Lizard. Journal of Experimental Biology, 1990, 152, 101-128.	1.7	54
94	Diversity of dermal denticle structure in sharks: Skin surface roughness and threeâ€dimensional morphology. Journal of Morphology, 2018, 279, 1132-1154.	1.2	53
95	Functional morphology of the fin rays of teleost fishes. Journal of Morphology, 2013, 274, 1044-1059.	1.2	49
96	Center of mass motion in swimming fish: effects of speed and locomotor mode during undulatory propulsion. Zoology, 2014, 117, 269-281.	1.2	49
97	High postural costs and anaerobic metabolism during swimming support the hypothesis of a U-shaped metabolism–speed curve in fishes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13048-13053.	7.1	49
98	Tuna locomotion: a computational hydrodynamic analysis of finlet function. Journal of the Royal Society Interface, 2020, 17, 20190590.	3.4	48
99	Terrestrial feeding in the Mudskipper Periophthalmus (Pisces: Teleostei): A cineradiographic analysis. Journal of Zoology, 2009, 193, 517-530.	1.7	47
100	Biomechanics of Locomotion in Sharks, Rays, and Chimeras. Marine Biology, 2004, , 139-164.	0.1	47
101	Asymmetrical Muscle Activity During Feeding in the Gar, <i>Lepisosteus Oculatus</i> . Journal of Experimental Biology, 1980, 84, 17-32.	1.7	47
102	Functional Anatomy of Feeding in the Bluegill Sunfish, <i>Lepomis Macrochirus</i> : <i>In Vivo</i> Measurement of Bone Strain. Journal of Experimental Biology, 1980, 84, 33-55.	1.7	47
103	Fish optimize sensing and respiration during undulatory swimming. Nature Communications, 2016, 7, 11044.	12.8	45
104	The ontogeny of fin function during routine turns in zebrafish <i>Danio rerio</i> . Journal of Experimental Biology, 2007, 210, 3374-3386.	1.7	43
105	Hydrodynamics of C-Start Escape Responses of Fish as Studied with Simple Physical Models. Integrative and Comparative Biology, 2015, 55, 728-739.	2.0	43
106	Fish-like aquatic propulsion studied using a pneumatically-actuated soft-robotic model. Bioinspiration and Biomimetics, 2020, 15, 046008.	2.9	43
107	Batoid locomotion: effects of speed on pectoral fin deformation in the little skate, <i>Leucoraja erinacea</i> . Journal of Experimental Biology, 2017, 220, 705-712.	1.7	42
108	Use of Biorobotic Models of Highly Deformable Fins for Studying the Mechanics and Control of Fin Forces in Fishes. Integrative and Comparative Biology, 2011, 51, 176-189.	2.0	41

#	Article	IF	CITATIONS
109	Three-dimensional analysis of scale morphology in bluegill sunfish, Lepomis macrochirus. Zoology, 2016, 119, 182-195.	1.2	41
110	Airfoil-like mechanics generate thrust on the anterior body of swimming fishes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10585-10592.	7.1	40
111	Functional morphology of the ?tongue-bite? in the osteoglossomorph fishNotopterus. Journal of Morphology, 1989, 202, 379-408.	1.2	39
112	Locomotion of free-swimming ghost knifefish: anal fin kinematics during four behaviors. Zoology, 2014, 117, 337-348.	1.2	38
113	Convergence of undulatory swimming kinematics across a diversity of fishes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	38
114	Advances in Comparative Physiology from High-Speed Imaging of Animal and Fluid Motion. Annual Review of Physiology, 2008, 70, 143-163.	13.1	36
115	Passing the Wake: Using Multiple Fins to Shape Forces for Swimming. Biomimetics, 2019, 4, 23.	3.3	36
116	A pressure-based force and torque prediction technique for the study of fish-like swimming. PLoS ONE, 2017, 12, e0189225.	2.5	36
117	Speciation through the lens of biomechanics: locomotion, prey capture and reproductive isolation. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161294.	2.6	35
118	Challenging zebrafish escape responses by increasing water viscosity. Journal of Experimental Biology, 2012, 215, 1854-1862.	1.7	34
119	Ontogeny of head and caudal fin shape of an apex marine predator: The tiger shark ( <scp><i>G</i></scp> <i>aleocerdo cuvier)</i> . Journal of Morphology, 2016, 277, 556-564.	1.2	34
120	Fish-like three-dimensional swimming with an autonomous, multi-fin, and biomimetic robot. Bioinspiration and Biomimetics, 2021, 16, 026018.	2.9	33
121	Fish Locomotion: Biology and Robotics of Body and Fin-Based Movements. Springer Tracts in Mechanical Engineering, 2015, , 25-49.	0.3	30
122	Swimming Mechanics and Energetics of Elasmobranch Fishes. Fish Physiology, 2015, , 219-253.	0.8	29
123	Tunas as a high-performance fish platform for inspiring the next generation of autonomous underwater vehicles. Bioinspiration and Biomimetics, 2020, 15, 035007.	2.9	29
124	Hydrodynamic advantages of in-line schooling. Bioinspiration and Biomimetics, 2021, 16, 046002.	2.9	29
125	Locomotion in scombrid fishes: visualization of flow around the caudal peduncle and finlets of the chub mackerel Scomber japonicus. Journal of Experimental Biology, 2001, 204, 2251-63.	1.7	29
126	Functional regionalization of the pectoral fin of the benthic longhorn sculpin during station holding and swimming. Journal of Zoology, 2008, 276, 159-167.	1.7	28

#	Article	IF	CITATIONS
127	Structure and function in the tail of the Pumpkinseed sunfish (Lepomis gibbosus). Journal of Zoology, 1982, 197, 483-495.	1.7	27
128	Modeling red muscle power output during steady and unsteady swimming in largemouth bass. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1994, 267, R481-R488.	1.8	26
129	Median fin function during the escape response of bluegill sunfish (Lepomis macrochirus). I: Fin-ray orientation and movement. Journal of Experimental Biology, 2012, 215, 2869-2880.	1.7	26
130	Imaging biological surface topography <i>in situ</i> and <i>in vivo</i> . Methods in Ecology and Evolution, 2017, 8, 1626-1638.	5.2	26
131	Pressure and Water Flow Patterns in the Respiratory Tract of the Bass <i>(Micropterus) Tj ETQq1 1 0.784314 rgBT</i>	[  Overloc 1.7	k 10 Tf 50
132	Prey transport in the tiger salamander: Quantitative electromyography and muscle function in tetrapods. The Journal of Experimental Zoology, 1991, 260, 1-17.	1.4	25
133	Comparative morphology of the myomeres and axial skeleton in four genera of centrarchid fishes. Journal of Morphology, 1994, 220, 185-205.	1.2	25
134	Median fin function during the escape response of bluegill sunfish (Lepomis macrochirus). II: Fin-ray curvature. Journal of Experimental Biology, 2012, 215, 2881-2890.	1.7	25
135	Tunable stiffness in fish robotics: mechanisms and advantages. Bioinspiration and Biomimetics, 2022, 17, 011002.	2.9	25
136	How smooth is a dolphin? The ridged skin of odontocetes. Biology Letters, 2019, 15, 20190103.	2.3	24
137	A Biologically Derived Pectoral Fin for Yaw Turn Manoeuvres. Applied Bionics and Biomechanics, 2010, 7, 41-55.	1.1	23
138	Performance variation due to stiffness in a tuna-inspired flexible foil model. Bioinspiration and Biomimetics, 2017, 12, 016011.	2.9	19
139	How zebrafish turn: analysis of pressure force dynamics and mechanical work. Journal of Experimental Biology, 2020, 223, .	1.7	19
140	Fin–fin interactions during locomotion in a simplified biomimetic fish model. Bioinspiration and Biomimetics, 2021, 16, 046023.	2.9	17
141	Hydrodynamic function of dorsal fins in spiny dogfish and bamboo sharks during steady swimming. Journal of Experimental Biology, 2017, 220, 3967-3975.	1.7	16
142	Effect of input perturbation on the performance and wake dynamics of aquatic propulsion in heaving flexible foils. Physical Review Fluids, 2017, 2, .	2.5	16
143	Dermal Denticle Diversity in Sharks: Novel Patterns on the Interbranchial Skin. Integrative Organismal Biology, 2021, 3, obab034.	1.8	15
144	The denticle surface of thresher shark tails: Threeâ€dimensional structure and comparison to other pelagic species. Journal of Morphology, 2020, 281, 938-955.	1.2	14

#	Article	IF	CITATIONS
145	Locomotion in scombrid fishes: morphology and kinematics of the finlets of the chub mackerel Scomber japonicus. Journal of Experimental Biology, 2000, 203, 2247-59.	1.7	14
146	Flight of the robofly. Nature, 2001, 412, 688-689.	27.8	13
147	Tuna robotics: hydrodynamics of rapid linear accelerations. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202726.	2.6	13
148	The Role of the Tail or Lack Thereof in the Evolution of Tetrapod Aquatic Propulsion. Integrative and Comparative Biology, 2021, 61, 398-413.	2.0	12
149	Functional morphology and hydrodynamics of backward swimming in bluegill sunfish, Lepomis macrochirus. Zoology, 2016, 119, 414-420.	1.2	11
150	Scale diversity in bigeye tuna ( <i>Thunnus obesus</i> ): Fatâ€filled trabecular scales made of cellular bone. Journal of Morphology, 2018, 279, 828-840.	1.2	9
151	Experimental morphology of the feeding mechanism in salamanders. Journal of Morphology, 1991, 210, 33-44.	1.2	8
152	Mechanisms of anguilliform locomotion in fishes studied using simple three-dimensional physical models. Bioinspiration and Biomimetics, 2016, 11, 046006.	2.9	8
153	A biorobotic model of the suction feeding system in largemouth bass: the roles of motor program speed and hyoid kinematics. Journal of Experimental Biology, 2016, 219, 2048-59.	1.7	8
154	Computational study of fish-shaped panel with simultaneously heaving and bending motion. , 2019, , .		6
155	Robotics as a Comparative Method in Ecology and Evolutionary Biology. Integrative and Comparative Biology, 2022, , .	2.0	5
156	Fish-inspired segment models for undulatory steady swimming. Bioinspiration and Biomimetics, 2022, 17, 046007.	2.9	5
157	Longer development provides firstâ€feeding fish time to escape hydrodynamic constraints. Journal of Morphology, 2020, 281, 956-969.	1.2	3
158	Development of a vortex generator to perturb fish locomotion. Journal of Experimental Biology, 2017, 220, 959-963.	1.7	2
159	Structure of supporting elements in the dorsal fin of percid fishes. Journal of Morphology, 2017, 278, 1716-1725.	1.2	2
160	Effect of Tunable Stiffness on the Hydrodynamic Performance of a Tuna Tail Informed Flexible Propulsor. , 2022, , .		2
161	The role of an overlooked adductor muscle in the feeding mechanism of ray-finned fishes: Predictions from simulations of a deep-sea viperfish. Zoology, 2019, 135, 125678.	1.2	1
162	A Soft Robotic Model to Study the Effects of Stiffness on Fish-Like Undulatory Swimming. , 2021, , 153-169.		1

#	Article	IF	CITATIONS
163	A Fish-Like Soft-Robotic Model Generates a Diversity of Swimming Patterns. Integrative and Comparative Biology, 2022, 62, 735-748.	2.0	1
164	Edward Phelps Allis: discovery of his anatomical illustrations. Biological Journal of the Linnean Society, 1981, 16, 285-291.	1.6	0
165	Metazoan Transitions: <i>Invasions of the Land</i> . 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 Science, 1995, 268, 1208-1208.	12.6	0
166	A Biorobotic Pectoral Fin for Autonomous Undersea Vehicles. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0