George Lauder

List of Publications by Year in Descending Order

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	An autonomously swimming biohybrid fish designed with human cardiac biophysics.. *Science*, **2022**, 375, 639-647	33.3	17
159	Multi-animal pose estimation, identification and tracking with DeepLabCut.. *Nature Methods*, **2022**,	21.6	10
158	A Soft Robotic Model to Study the Effects of Stiffness on Fish-Like Undulatory Swimming **2021**, 153-169		
157	Dermal Denticle Diversity in Sharks: Novel Patterns on the Interbranchial Skin.. *Integrative Organismal Biology*, **2021**, 3, obab034	2.3	1
156	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,	11.5	7
155	Hydrodynamic advantages of in-line schooling. *Bioinspiration and Biomimetics*, **2021**, 16,	2.6	5
154	The Role of the Tail or Lack Thereof in the Evolution of Tetrapod Aquatic Propulsion. *Integrative and Comparative Biology*, **2021**, 61, 398-413	2.8	4
153	Tuna robotics: hydrodynamics of rapid linear accelerations. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20202726	4.4	4
152	Fin-fin interactions during locomotion in a simplified biomimetic fish model. *Bioinspiration and Biomimetics*, **2021**, 16,	2.6	2
151	Fish-like aquatic propulsion studied using a pneumatically-actuated soft-robotic model. *Bioinspiration and Biomimetics*, **2020**, 15, 046008	2.6	20
150	Longer development provides first-feeding fish time to escape hydrodynamic constraints. *Journal of Morphology*, **2020**, 281, 956-969	1.6	1
149	The denticle surface of thresher shark tails: Three-dimensional structure and comparison to other pelagic species. *Journal of Morphology*, **2020**, 281, 938-955	1.6	6
148	How zebrafish turn: analysis of pressure force dynamics and mechanical work. *Journal of Experimental Biology*, **2020**, 223,	3	4
147	Tunas as a high-performance fish platform for inspiring the next generation of autonomous underwater vehicles. *Bioinspiration and Biomimetics*, **2020**, 15, 035007	2.6	12
146	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	11.5	20
145	Tail-propelled aquatic locomotion in a theropod dinosaur. *Nature*, **2020**, 581, 67-70	50.4	26
144	Hydrodynamics of median-fin interactions in fish-like locomotion: Effects of fin shape and movement. *Physics of Fluids*, **2020**, 32, 011902	4.4	28

143	Tunabot Flex: a tuna-inspired robot with body flexibility improves high-performance swimming. *Bioinspiration and Biomimetics*, **2020**,	2.6	14
142	Tuna locomotion: a computational hydrodynamic analysis of finlet function. *Journal of the Royal Society Interface*, **2020**, 17, 20190590	4.1	22
141	Fish-like three-dimensional swimming with an autonomous, multi-fin, and biomimetic robot. *Bioinspiration and Biomimetics*, **2020**,	2.6	6
140	Computational study of fish-shaped panel with simultaneously heaving and bending motion **2019**,		1
139	Tuna robotics: A high-frequency experimental platform exploring the performance space of swimming fishes. *Science Robotics*, **2019**, 4,	18.6	76
138	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	1.7	1
137	Passing the Wake: Using Multiple Fins to Shape Forces for Swimming. *Biomimetics*, **2019**, 4,	3.7	20
136	How smooth is a dolphin? The ridged skin of odontocetes. *Biology Letters*, **2019**, 15, 20190103	3.6	12
135	Understanding Fish Linear Acceleration Using an Undulatory Biorobotic Model with Soft Fluidic Elastomer Actuated Morphing Median Fins. *Soft Robotics*, **2018**, 5, 375-388	9.2	32
134	Shark skin-inspired designs that improve aerodynamic performance. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	69
133	Scale diversity in bigeye tuna (Thunnus obesus): Fat-filled trabecular scales made of cellular bone. *Journal of Morphology*, **2018**, 279, 828-840	1.6	5
132	Robotics-inspired biology. *Journal of Experimental Biology*, **2018**, 221,	3	43
131	Hydrodynamic properties of biomimetic shark skin: effect of denticle size and swimming speed. *Bioinspiration and Biomimetics*, **2018**, 13, 056014	2.6	30
130	Diversity of dermal denticle structure in sharks: Skin surface roughness and three-dimensional morphology. *Journal of Morphology*, **2018**, 279, 1132-1154	1.6	31
129	Performance variation due to stiffness in a tuna-inspired flexible foil model. *Bioinspiration and Biomimetics*, **2017**, 12, 016011	2.6	12
128	Development of a vortex generator to perturb fish locomotion. *Journal of Experimental Biology*, **2017**, 220, 959-963	3	1
127	Undulatory Swimming Performance and Body Stiffness Modulation in a Soft Robotic Fish-Inspired Physical Model. *Soft Robotics*, **2017**, 4, 202-210	9.2	48
126	Imaging biological surface topography in situ and in vivo. *Methods in Ecology and Evolution*, **2017**, 8, 1626-1638	7.1	19

125	Computational analysis of vortex dynamics and performance enhancement due to body-fin and fin-fin interactions in fish-like locomotion. *Journal of Fluid Mechanics*, **2017**, 829, 65-88	3.7	82
124	Structure of supporting elements in the dorsal fin of percid fishes. *Journal of Morphology*, **2017**, 278, 1716-1725	1.6	0
123	Hydrodynamic function of dorsal fins in spiny dogfish and bamboo sharks during steady swimming. *Journal of Experimental Biology*, **2017**, 220, 3967-3975	3	14
122	Accelerating fishes increase propulsive efficiency by modulating vortex ring geometry. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 13828-13833	11.5	34
121	Control surfaces of aquatic vertebrates: active and passive design and function. *Journal of Experimental Biology*, **2017**, 220, 4351-4363	3	36
120	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	11.5	30
119	A novel mechanism for mechanosensory-based rheotaxis in larval zebrafish. *Nature*, **2017**, 547, 445-448	50.4	83
118	Effect of input perturbation on the performance and wake dynamics of aquatic propulsion in heaving flexible foils. *Physical Review Fluids*, **2017**, 2,	2.8	11
117	On the rules for aquatic locomotion. *Physical Review Fluids*, **2017**, 2,	2.8	44
116	A pressure-based force and torque prediction technique for the study of fish-like swimming. *PLoS ONE*, **2017**, 12, e0189225	3.7	22
115	Batoid locomotion: effects of speed on pectoral fin deformation in the little skate,. *Journal of Experimental Biology*, **2017**, 220, 705-712	3	27
114	Speciation through the lens of biomechanics: locomotion, prey capture and reproductive isolation. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283,	4.4	27
113	Fish optimize sensing and respiration during undulatory swimming. *Nature Communications*, **2016**, 7, 11044	17.4	33
112	Three-dimensional analysis of scale morphology in bluegill sunfish, Lepomis macrochirus. *Zoology*, **2016**, 119, 182-195	1.7	29
111	Structure, biomimetics, and fluid dynamics of fish skin surfaces*. *Physical Review Fluids*, **2016**, 1,	2.8	52
110	Ontogeny of head and caudal fin shape of an apex marine predator: The tiger shark (Galeocerdo cuvier). *Journal of Morphology*, **2016**, 277, 556-64	1.6	18
109	Phototactic guidance of a tissue-engineered soft-robotic ray. *Science*, **2016**, 353, 158-62	33.3	371
108	Mechanisms of anguilliform locomotion in fishes studied using simple three-dimensional physical models. *Bioinspiration and Biomimetics*, **2016**, 11, 046006	2.6	5

107	Hydrodynamics of swimming in stingrays: numerical simulations and the role of the leading-edge vortex. *Journal of Fluid Mechanics*, **2016**, 788, 407-443	3.7	64
106	Functional morphology and hydrodynamics of backward swimming in bluegill sunfish, Lepomis macrochirus. *Zoology*, **2016**, 119, 414-420	1.7	10
105	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	3	8
104	Hydrodynamics of C-Start Escape Responses of Fish as Studied with Simple Physical Models. *Integrative and Comparative Biology*, **2015**, 55, 728-39	2.8	28
103	Passive mechanical models of fish caudal fins: effects of shape and stiffness on self-propulsion. *Bioinspiration and Biomimetics*, **2015**, 10, 036002	2.6	75
102	Fish Locomotion: Biology and Robotics of Body and Fin-Based Movements. *Springer Tracts in Mechanical Engineering*, **2015**, 25-49	0.3	21
101	Maximizing the efficiency of a flexible propulsor using experimental optimization. *Journal of Fluid Mechanics*, **2015**, 767, 430-448	3.7	90
100	Hydrodynamic function of biomimetic shark skin: effect of denticle pattern and spacing. *Bioinspiration and Biomimetics*, **2015**, 10, 066010	2.6	50
99	Swimming Mechanics and Energetics of Elasmobranch Fishes. *Fish Physiology*, **2015**, 219-253	2	24
98	Effects of non-uniform stiffness on the swimming performance of a passively-flexing, fish-like foil model. *Bioinspiration and Biomimetics*, **2015**, 10, 056019	2.6	53
97	Fish locomotion: recent advances and new directions. *Annual Review of Marine Science*, **2015**, 7, 521-45	15.4	130
96	Biomimetic shark skin: design, fabrication and hydrodynamic function. *Journal of Experimental Biology*, **2014**, 217, 1656-66	3	247
95	Center of mass motion in swimming fish: effects of speed and locomotor mode during undulatory propulsion. *Zoology*, **2014**, 117, 269-81	1.7	38
94	Scaling the propulsive performance of heaving flexible panels. *Journal of Fluid Mechanics*, **2014**, 738, 250-267	3.7	144
93	Locomotion of free-swimming ghost knifefish: anal fin kinematics during four behaviors. *Zoology*, **2014**, 117, 337-48	1.7	28
92	Flexible propulsors in ground effect. *Bioinspiration and Biomimetics*, **2014**, 9, 036008	2.6	85
91	Undulatory locomotion of flexible foils as biomimetic models for understanding fish propulsion. *Journal of Experimental Biology*, **2014**, 217, 2110-20	3	60
90	Functional morphology of the fin rays of teleost fishes. *Journal of Morphology*, **2013**, 274, 1044-59	1.6	36

89	Understanding undulatory locomotion in fishes using an inertia-compensated flapping foil robotic device. *Bioinspiration and Biomimetics*, **2013**, 8, 046013	2.6	39
88	The hydrodynamic function of shark skin and two biomimetic applications. *Journal of Experimental Biology*, **2012**, 215, 785-95	3	184
87	Passive robotic models of propulsion by the bodies and caudal fins of fish. *Integrative and Comparative Biology*, **2012**, 52, 576-87	2.8	67
86	Rajiform locomotion: three-dimensional kinematics of the pectoral fin surface during swimming in the freshwater stingray Potamotrygon orbignyi. *Journal of Experimental Biology*, **2012**, 215, 3231-41	3	45
85	Dynamics of freely swimming flexible foils. *Physics of Fluids*, **2012**, 24, 051901	4.4	133
84	Median fin function during the escape response of bluegill sunfish (Lepomis macrochirus). I: Fin-ray orientation and movement. *Journal of Experimental Biology*, **2012**, 215, 2869-80	3	21
83	Median fin function during the escape response of bluegill sunfish (Lepomis macrochirus). II: Fin-ray curvature. *Journal of Experimental Biology*, **2012**, 215, 2881-90	3	22
82	Challenging zebrafish escape responses by increasing water viscosity. *Journal of Experimental Biology*, **2012**, 215, 1854-62	3	27
81	Hydrodynamics of the bluegill sunfish C-start escape response: three-dimensional simulations and comparison with experimental data. *Journal of Experimental Biology*, **2012**, 215, 671-84	3	74
80	A robotic fish caudal fin: effects of stiffness and motor program on locomotor performance. *Journal of Experimental Biology*, **2012**, 215, 56-67	3	125
79	Bioinspiration from fish for smart material design and function. *Smart Materials and Structures*, **2011**, 20, 094014	3.4	75
78	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, 3670-8	4.4	46
77	Robotic Models for Studying Undulatory Locomotion in Fishes. *Marine Technology Society Journal*, **2011**, 45, 41-55	0.5	83
76	Swimming hydrodynamics: ten questions and the technical approaches needed to resolve them. *Experiments in Fluids*, **2011**, 51, 23-35	2.5	45
75	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, 176-89	2.8	31
74	Mechanical properties of a bio-inspired robotic knifefish with an undulatory propulsor. *Bioinspiration and Biomimetics*, **2011**, 6, 026004	2.6	87
73	A Biologically Derived Pectoral Fin for Yaw Turn Manoeuvres. *Applied Bionics and Biomechanics*, **2010**, 7, 41-55	1.6	22
72	Computational modelling and analysis of the hydrodynamics of a highly deformable fish pectoral fin. *Journal of Fluid Mechanics*, **2010**, 645, 345-373	3.7	100

71	The effect of fin ray flexural rigidity on the propulsive forces generated by a biorobotic fish pectoral fin. *Journal of Experimental Biology*, **2010**, 213, 4043-54	3	97
70	Caudal fin shape modulation and control during acceleration, braking and backing maneuvers in bluegill sunfish, Lepomis macrochirus. *Journal of Experimental Biology*, **2009**, 212, 277-86	3	75
69	Terrestrial feeding in the Mudskipper Periophthalmus (Pisces: Teleostei): A cineradiographic analysis. *Journal of Zoology*, **2009**, 193, 517-530	2	41
68	Low-dimensional models and performance scaling of a highly deformable fish pectoral fin. *Journal of Fluid Mechanics*, **2009**, 631, 311-342	3.7	65
67	Functional regionalization of the pectoral fin of the benthic longhorn sculpin during station holding and swimming. *Journal of Zoology*, **2008**, 276, 159-167	2	24
66	Escaping Flatland: three-dimensional kinematics and hydrodynamics of median fins in fishes. *Journal of Experimental Biology*, **2008**, 211, 187-95	3	72
65	Advances in comparative physiology from high-speed imaging of animal and fluid motion. *Annual Review of Physiology*, **2008**, 70, 143-63	23.1	33
64	Hydrodynamics of the escape response in bluegill sunfish, Lepomis macrochirus. *Journal of Experimental Biology*, **2008**, 211, 3359-69	3	118
63	Speed-dependent intrinsic caudal fin muscle recruitment during steady swimming in bluegill sunfish, Lepomis macrochirus. *Journal of Experimental Biology*, **2008**, 211, 587-98	3	53
62	The mechanics of active fin-shape control in ray-finned fishes. *Journal of the Royal Society Interface*, **2007**, 4, 243-56	4.1	98
61	Fish biorobotics: kinematics and hydrodynamics of self-propulsion. *Journal of Experimental Biology*, **2007**, 210, 2767-80	3	233
60	Hydrodynamics of a biologically inspired tandem flapping foil configuration. *Theoretical and Computational Fluid Dynamics*, **2007**, 21, 155-170	2.3	139
59	Fish locomotion: kinematics and hydrodynamics of flexible foil-like fins. *Experiments in Fluids*, **2007**, 43, 641-653	2.5	102
58	The ontogeny of fin function during routine turns in zebrafish Danio rerio. *Journal of Experimental Biology*, **2007**, 210, 3374-86	3	36
57	Hydrodynamic function of dorsal and anal fins in brook trout (Salvelinus fontinalis). *Journal of Experimental Biology*, **2007**, 210, 325-39	3	94
56	Learning from fish: Kinematics and experimental hydrodynamics for roboticists. *International Journal of Automation and Computing*, **2006**, 3, 325-335	3.5	110
55	Ontogeny of form and function: locomotor morphology and drag in zebrafish (Danio rerio). *Journal of Morphology*, **2006**, 267, 1099-109	1.6	51
54	Passive propulsion in vortex wakes. *Journal of Fluid Mechanics*, **2006**, 549, 385	3.7	216

53	Locomotion with flexible propulsors: I. Experimental analysis of pectoral fin swimming in sunfish. *Bioinspiration and Biomimetics*, **2006**, 1, S25-34	2.6	101
52	Hydrodynamics of Undulatory Propulsion. *Fish Physiology*, **2005**, 23, 425-468	2	115
51	Locomotor function of the dorsal fin in rainbow trout: kinematic patterns and hydrodynamic forces. *Journal of Experimental Biology*, **2005**, 208, 4479-94	3	95
50	Dorsal and anal fin function in bluegill sunfish Lepomis macrochirus: three-dimensional kinematics during propulsion and maneuvering. *Journal of Experimental Biology*, **2005**, 208, 2753-63	3	141
49	Biomechanics: hydrodynamic function of the shark's tail. *Nature*, **2004**, 430, 850	50.4	75
48	The hydrodynamics of eel swimming: I. Wake structure. *Journal of Experimental Biology*, **2004**, 207, 1825-41	3	284
47	Biomechanics of Locomotion in Sharks, Rays, and Chimeras. *Marine Biology*, **2004**, 139-164		40
46	Experimental Hydrodynamics and Evolution: Function of Median Fins in Ray-finned Fishes. *Integrative and Comparative Biology*, **2002**, 42, 1009-17	2.8	53
45	Forces, fishes, and fluids: hydrodynamic mechanisms of aquatic locomotion. *Physiology*, **2002**, 17, 235-40	9.8	51
44	Hydrodynamics of caudal fin locomotion by chub mackerel,Scomber japonicus(Scombridae). *Journal of Experimental Biology*, **2002**, 205, 1709-1724	3	151
43	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	3	77
42	The C-start escape response ofPolypterus senegalus: bilateral muscle activity and variation during stage 1 and 2. *Journal of Experimental Biology*, **2002**, 205, 2591-2603	3	58
41	Quantification of the wake of rainbow trout (Oncorhynchus mykiss) using three-dimensional stereoscopic digital particle image velocimetry. *Journal of Experimental Biology*, **2002**, 205, 3271-3279	3	55
40	Hydrodynamics of caudal fin locomotion by chub mackerel, Scomber japonicus (Scombridae). *Journal of Experimental Biology*, **2002**, 205, 1709-24	3	84
39	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	3	58
38	Aquatic prey capture in ray-finned fishes: a century of progress and new directions. *Journal of Morphology*, **2001**, 248, 99-119	1.6	97
37	Functional morphology of the pectoral fins in bamboo sharks, Chiloscyllium plagiosum: benthic vs. pelagic station-holding. *Journal of Morphology*, **2001**, 249, 195-209	1.6	69
36	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, 2251-2263	3	47

35	Locomotor function of the dorsal fin in teleost fishes: experimental analysis of wake forces in sunfish. *Journal of Experimental Biology*, **2001**, 204, 2943-2958	3	171
34	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	3	27
33	Locomotor function of the dorsal fin in teleost fishes: experimental analysis of wake forces in sunfish. *Journal of Experimental Biology*, **2001**, 204, 2943-58	3	112
32	Function of the Caudal Fin During Locomotion in Fishes: Kinematics, Flow Visualization, and Evolutionary Patterns. *American Zoologist*, **2000**, 40, 101-122		93
31	Locomotion in scombrid fishes: morphology and kinematics of the finlets of the chub mackerel Scomber japonicus. *Journal of Experimental Biology*, **2000**, 203, 2247-59	3	13
30	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	3	55
29	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	3	76
28	Function of the dorsal fin in bluegill sunfish: Motor patterns during four distinct locomotor behaviors. *Journal of Morphology*, **1996**, 228, 307-326	1.6	64
27	Speed effects on midline kinematics during steady undulatory swimming of largemouth bass, Micropterus salmoides. *Journal of Experimental Biology*, **1995**, 198, 585-602	3	98
26	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.. *Science*, **1995**, 268, 1208-1208	33.3	
25	Modeling red muscle power output during steady and unsteady swimming in largemouth bass. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1994**, 267, R481-8	3.2	17
24	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	2.3	105
23	Comparative morphology of the myomeres and axial skeleton in four genera of centrarchid fishes. *Journal of Morphology*, **1994**, 220, 185-205	1.6	20
22	Experimental morphology of the feeding mechanism in salamanders. *Journal of Morphology*, **1991**, 210, 33-44	1.6	6
21	Prey transport in the tiger salamander: Quantitative electromyography and muscle function in tetrapods. *The Journal of Experimental Zoology*, **1991**, 260, 1-17		17
20	Muscle Recruitment During Terrestrial Locomotion: How Speed and Temperature Affect Fibre Type Use in a Lizard. *Journal of Experimental Biology*, **1990**, 152, 101-128	3	46
19	Caudal Fin Locomotion in Ray-finned Fishes: Historical and Functional Analyses. *American Zoologist*, **1989**, 29, 85-102		71
18	Functional morphology of the "tongue-bite" in the osteoglossomorph fish Notopterus. *Journal of Morphology*, **1989**, 202, 379-408	1.6	30

17	Morphology and function of the feeding apparatus of the lungfish, Lepidosiren paradoxa (Dipnoi). *Journal of Morphology*, **1986**, 187, 81-108	1.6	102
16	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	2.4	72
15	Functional morphology of the feeding mechanism in aquatic ambystomatid salamanders. *Journal of Morphology*, **1985**, 185, 297-326	1.6	114
14	Water Flow Patterns During Prey Capture by Teleost Fishes. *Journal of Experimental Biology*, **1984**, 113, 143-150	3	49
13	Pressure and Water Flow Patterns in the Respiratory Tract of the Bass (Micropterus Salmoides). *Journal of Experimental Biology*, **1984**, 113, 151-164	3	23
12	Functional and morphological bases of trophic specialization in sunfishes (Teleostei, centrarchidae). *Journal of Morphology*, **1983**, 178, 1-21	1.6	118
11	Prey Capture Hydrodynamics in Fishes: Experimental Tests of Two Models. *Journal of Experimental Biology*, **1983**, 104, 1-13	3	74
10	Structure and function in the tail of the Pumpkinseed sunfish (Lepomis gibbosus). *Journal of Zoology*, **1982**, 197, 483-495	2	23
9	Patterns of Evolution in the Feeding Mechanism of Actinopterygian Fishes. *American Zoologist*, **1982**, 22, 275-285		135
8	Form and function: structural analysis in evolutionary morphology. *Paleobiology*, **1981**, 7, 430-442	2.6	334
7	Prey capture by Luciocephalus pulcher: implications for models of jaw protrusion in teleost fishes. *Environmental Biology of Fishes*, **1981**, 6, 257-268	1.6	78
6	Edward Phelps Allis: discovery of his anatomical illustrations. *Biological Journal of the Linnean Society*, **1981**, 16, 285-291	1.9	
5	Evolution of the feeding mechanism in primitive actionopterygian fishes: A functional anatomical analysis of Polypterus, Lepisosteus, and Amia. *Journal of Morphology*, **1980**, 163, 283-317	1.6	222
4	Asymmetrical Muscle Activity During Feeding in the Gar, Lepisosteus Oculatus. *Journal of Experimental Biology*, **1980**, 84, 17-32	3	39
3	Functional Anatomy of Feeding in the Bluegill Sunfish, Lepomis Macrochirus: in Vivo Measurement of Bone Strain. *Journal of Experimental Biology*, **1980**, 84, 33-55	3	40
2	The Suction Feeding Mechanism in Sunfishes (Lepomis): An Experimental Analysis. *Journal of Experimental Biology*, **1980**, 88, 49-72	3	151
1	Multi-animal pose estimation and tracking with DeepLabCut		18