

# Dylan K Wainwright

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9557906/publications.pdf>

Version: 2024-02-01

24  
papers

1,030  
citations

686830

13  
h-index

713013

21  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1105  
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	Tuna robotics: A high-frequency experimental platform exploring the performance space of swimming fishes. <i>Science Robotics</i> , 2019, 4, .	9.9	169
3	Stick tight: suction adhesion on irregular surfaces in the northern clingfish. <i>Biology Letters</i> , 2013, 9, 20130234.	1.0	129
4	Attachment to challenging substrates – fouling, roughness and limits of adhesion in the northern clingfish ( <i>Gobiesox maeandricus</i> ). <i>Journal of Experimental Biology</i> , 2014, 217, 2548-2554.	0.8	80
5	Structure, biomimetics, and fluid dynamics of fish skin surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	73
6	Diversity of dermal denticle structure in sharks: Skin surface roughness and three-dimensional morphology. <i>Journal of Morphology</i> , 2018, 279, 1132-1154.	0.6	53
7	Tuna locomotion: a computational hydrodynamic analysis of finlet function. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190590.	1.5	48
8	Three-dimensional analysis of scale morphology in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Zoology</i> , 2016, 119, 182-195.	0.6	41
9	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, .	3.3	38
10	Tunas as a high-performance fish platform for inspiring the next generation of autonomous underwater vehicles. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 035007.	1.5	29
11	Imaging biological surface topography <i>in situ</i> and <i>in vivo</i> . <i>Methods in Ecology and Evolution</i> , 2017, 8, 1626-1638.	2.2	26
12	How smooth is a dolphin? The ridged skin of odontocetes. <i>Biology Letters</i> , 2019, 15, 20190103.	1.0	24
13	Mucus Matters: The Slippery and Complex Surfaces of Fish. <i>Biologically-inspired Systems</i> , 2017, , 223-246.	0.4	21
14	Detachment of the remora suckerfish disc: kinematics and a bio-inspired robotic model. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 056018.	1.5	16
15	Dermal Denticle Diversity in Sharks: Novel Patterns on the Interbranchial Skin. <i>Integrative Organismal Biology</i> , 2021, 3, obab034.	0.9	15
16	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.	0.6	14
17	Morphology of the core fibrous layer of the cetacean tail fluke. <i>Journal of Morphology</i> , 2018, 279, 757-765.	0.6	10
18	Ontogenetic scaling patterns of lizard skin surface structure as revealed by gel-based stereoprofilometry. <i>Journal of Anatomy</i> , 2019, 235, 346-356.	0.9	10

#	ARTICLE	IF	CITATIONS
19	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.	0.6	9
20	Ecologically driven selection of nonstructural carbohydrate storage in oak trees. <i>New Phytologist</i> , 2021, 232, 567-578.	3.5	9
21	Computational study of fish-shaped panel with simultaneously heaving and bending motion. , 2019, , .		6
22	Fish-inspired segment models for undulatory steady swimming. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 046007.	1.5	5
23	A bio-robotic remora disc with attachment and detachment capabilities for reversible underwater hitchhiking. , 2019, , .		4
24	Evolutionary patterns of scale morphology in damselfishes (Pomacentridae). <i>Biological Journal of the Linnean Society</i> , 2022, 135, 138-158.	0.7	1