

# David W Murphy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7110214/publications.pdf>

Version: 2024-02-01

28  
papers

489  
citations

759233

12  
h-index

677142

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Splash behaviour and oily marine aerosol production by raindrops impacting oil slicks. <i>Journal of Fluid Mechanics</i> , 2015, 780, 536-577.	3.4	72
2	An in-depth survey of the oil spill literature since 1968: Long term trends and changes since Deepwater Horizon. <i>Marine Pollution Bulletin</i> , 2016, 113, 371-379.	5.0	71
3	Coordination of multiple appendages in drag-based swimming. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1545-1557.	3.4	43
4	The hydrodynamics of hovering in Antarctic krill. <i>Limnology &amp; Oceanography Fluids &amp; Environments</i> , 2013, 3, 240-255.	1.7	38
5	Underwater flight by the planktonic sea butterfly. <i>Journal of Experimental Biology</i> , 2016, 219, 535-543.	1.7	34
6	Crude oil jets in crossflow: Effects of dispersant concentration on plume behavior. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4264-4281.	2.6	30
7	Passive flow control of bileaflet mechanical heart valve leakage flow. <i>Journal of Biomechanics</i> , 2008, 41, 1166-1173.	2.1	27
8	Sensory-Motor Systems of Copepods involved in their Escape from Suction Feeding. <i>Integrative and Comparative Biology</i> , 2015, 55, 121-133.	2.0	21
9	Structure and Dynamics of Laminar Jet Micro-Slot Diffusion Flames. <i>Journal of Heat Transfer</i> , 2002, 124, 783-790.	2.1	19
10	Metachronal Motion across Scales: Current Challenges and Future Directions. <i>Integrative and Comparative Biology</i> , 2021, 61, 1674-1688.	2.0	18
11	Reduction of Procoagulant Potential of b-Datum Leakage Jet Flow in Bileaflet Mechanical Heart Valves via Application of Vortex Generator Arrays. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 071011.	1.3	16
12	Metachronal Swimming of Mantis Shrimp: Kinematics and Interpleopod Vortex Interactions. <i>Integrative and Comparative Biology</i> , 2021, 61, 1631-1643.	2.0	14
13	The Three Dimensional Spatial Structure of Antarctic Krill Schools in the Laboratory. <i>Scientific Reports</i> , 2019, 9, 381.	3.3	13
14	Bursting bubbles and the formation of gas jets and vortex rings. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	13
15	Using a shell as a wing: pairing of dissimilar appendages in Atlantiid heteropod swimming. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	12
16	A novel cylindrical overlap-and-fling mechanism used by sea butterflies. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	12
17	Spatiotemporal Asymmetry in Metachronal Rowing at Intermediate Reynolds Numbers. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	9
18	Organismal aggregations exhibit fluidic behaviors: a review. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 031001.	2.9	7

#	ARTICLE	IF	CITATIONS
19	Swimming and Sinking Behavior of Warm Water Pelagic Snails. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
20	Effects of crude oil vapors on the cardiovascular flow of embryonic Gulf killifish. <i>Science of the Total Environment</i> , 2021, 751, 141627.	8.0	5
21	Metachronal Coordination of Multiple Appendages for Swimming and Pumping. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	3
22	The effect of liquid properties on the release of gas from bursting bubbles. <i>Experiments in Fluids</i> , 2022, 63, 1.	2.4	3
23	Gas escape behavior from bursting bubbles. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	2
24	Random sequential addition simulations of animal aggregations provide null models of group structure. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 035001.	2.9	1
25	An experimental study of oil slick contraction by chemical herders and fragmentation by obstacles. <i>Cold Regions Science and Technology</i> , 2022, 197, 103519.	3.5	1
26	Aerodynamic Characteristics of Popcorn Ash Particles. <i>Particulate Science and Technology</i> , 2007, 25, 275-287.	2.1	0
27	Development of an In Vitro Exposure System for Live Visualization of the Health Impacts of Oily Marine Aerosol on the Human Respiratory System. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 2017349.	0.1	0
28	Fluid dynamics of frozen precipitation at the air-water interface. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	0