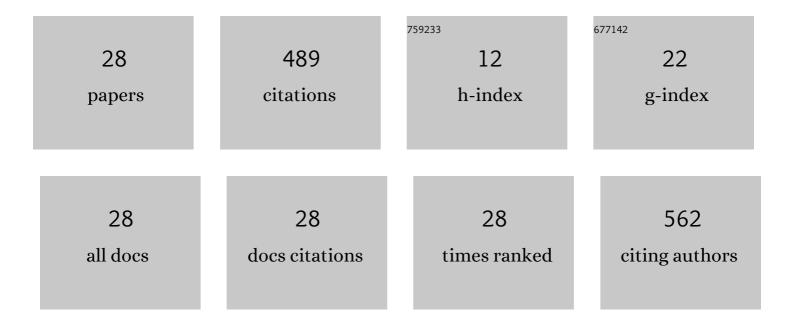
David W Murphy

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7110214/publications.pdf Version: 2024-02-01



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

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