Donald R Webster

List of Publications by Year in descending order

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DONALD P WERSTED

#	Article	IF	CITATIONS
1	Structure and mixing of a meandering turbulent chemical plume: turbulent mixing and eddy diffusivity. Experiments in Fluids, 2022, 63, 1.	2.4	2
2	Copepod interaction with smallâ€scale, dissipative eddies in turbulence: Comparison among three marine species. Limnology and Oceanography, 2022, 67, 1820-1835.	3.1	2
3	Dual Phase-Shifted Ipsilateral Metachrony in <i>Americamysis bahia</i> . Integrative and Comparative Biology, 2021, 61, 1644-1657.	2.0	4
4	The response of the copepod <i>Acartia tonsa</i> to the hydrodynamic cues of small-scale, dissipative eddies in turbulence. Journal of Experimental Biology, 2021, 224, .	1.7	3
5	Structure and mixing of a meandering turbulent chemical plume: concentration and velocity fields. Experiments in Fluids, 2021, 62, 1.	2.4	1
6	Copepod Behavior Responses Around Internal Waves. Frontiers in Marine Science, 2020, 7, .	2.5	3
7	Scalar power spectra and turbulent scalar length scales of high-Schmidt-number passive scalar fields in turbulent boundary layers. Physical Review Fluids, 2020, 5, .	2.5	1
8	The Three Dimensional Spatial Structure of Antarctic Krill Schools in the Laboratory. Scientific Reports, 2019, 9, 381.	3.3	13
9	Characterization of hop-and-sink daphniid locomotion. Journal of Plankton Research, 2019, 41, 142-153.	1.8	13
10	Characteristics of swimming shelled Antarctic pteropods (<i>Limacina helicina antarctica</i>) at intermediate Reynolds number regime. Physical Review Fluids, 2019, 4, .	2.5	12
11	Assessment of singleâ€instrument techniques for removing wave bias from Reynolds stress estimates. Limnology and Oceanography: Methods, 2018, 16, 35-50.	2.0	0
12	Copepod avoidance of thin chemical layers of harmful algal compounds. Limnology and Oceanography, 2018, 63, 1041-1055.	3.1	6
13	Portable tomographic PIV measurements of swimming shelled Antarctic pteropods. Experiments in Fluids, 2016, 57, 1.	2.4	17
14	Underwater flight by the planktonic sea butterfly. Journal of Experimental Biology, 2016, 219, 535-543.	1.7	34
15	The hydrodynamics of surface tidal flow exchange in saltmarshes. Estuarine, Coastal and Shelf Science, 2016, 172, 128-137.	2.1	4
16	A laboratory realization of the <scp>B</scp> urgers' vortex cartoon of turbulenceâ€plankton interactions. Limnology and Oceanography: Methods, 2015, 13, 92-102.	2.0	8
17	Sensory-Motor Systems of Copepods involved in their Escape from Suction Feeding. Integrative and Comparative Biology, 2015, 55, 121-133.	2.0	21
18	Copepods' Response to Burgers' Vortex: Deconstructing Interactions of Copepods with Turbulence. Integrative and Comparative Biology, 2015, 55, 706-718.	2.0	9

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19	A bio-inspired plume tracking algorithm for mobile sensing swarms in turbulent flow. , 2013, , .		6
20	Spatial and temporal variation in the hydrodynamic landscape in intertidal salt marsh systems. Limnology & Oceanography Fluids & Environments, 2013, 3, 156-172.	1.7	11
21	The hydrodynamics of hovering in Antarctic krill. Limnology & Oceanography Fluids & Environments, 2013, 3, 240-255.	1.7	38
22	The effect of fluid viscosity, habitat temperature, and body size on the flow disturbance of <i>Euchaeta</i> . Limnology & Oceanography Fluids & Environments, 2012, 2, 80-92.	1.7	6
23	Bioinspired algorithm for autonomous sensor-driven guidance in turbulent chemical plumes. Bioinspiration and Biomimetics, 2012, 7, 036023.	2.9	35
24	The hydrodynamic disturbances of two species of krill: implications for aggregation structure. Journal of Experimental Biology, 2011, 214, 1845-1856.	1.7	40
25	Metachronal swimming in Antarctic krill: gait kinematics and system design. Marine Biology, 2011, 158, 2541-2554.	1.5	46
26	Getting ahead: context-dependent responses to odorant filaments drive along-stream progress during odor tracking in blue crabs. Journal of Experimental Biology, 2011, 214, 1498-1512.	1.7	48
27	Staying the course: chemical signal spatial properties and concentration mediate cross-stream motion in turbulent plumes. Journal of Experimental Biology, 2011, 214, 1513-1522.	1.7	42
28	Three-dimensional odorant concentration measurements around actively tracking blue crabs. Limnology and Oceanography: Methods, 2009, 7, 96-108.	2.0	17
29	Multipoint correlations of concentration fluctuations in a turbulent passive scalar field. Experiments in Fluids, 2008, 44, 719-732.	2.4	5
30	The prevalence and implications of copepod behavioral responses to oceanographic gradients and biological patchiness. Integrative and Comparative Biology, 2007, 47, 831-846.	2.0	28
31	Quantitative analysis of tethered and free-swimming copepodid flow fields. Journal of Experimental Biology, 2007, 210, 299-310.	1.7	70
32	Bed roughness effects on boundaryâ€layer turbulence and consequences for odorâ€tracking behavior of blue crabs (Callinectes sapidus). Limnology and Oceanography, 2007, 52, 1883-1897.	3.1	49
33	The geometric properties of high-Schmidt-number passive scalar iso-surfaces in turbulent boundary layers. Journal of Fluid Mechanics, 2007, 588, 253-277.	3.4	12
34	Structure of Turbulent Chemical Plumes. , 2006, , 109-129.		0
35	Response of copepods to physical gradients associated with structure in the ocean. Limnology and Oceanography, 2005, 50, 1552-1564.	3.1	58
36	The effect of bed roughness on scalar fluctuations in turbulent boundary layers. Experiments in Fluids, 2005, 38, 372-384.	2.4	47

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37	A novel laboratory apparatus for simulating isotropic oceanic turbulence at low Reynolds number. Limnology and Oceanography: Methods, 2004, 2, 1-12.	2.0	38
38	Laser-Induced Fluorescence Measurements of a Turbulent Plume. Journal of Engineering Mechanics - ASCE, 2003, 129, 1130-1137.	2.9	45
39	Analysis of the flow field of the krill,Euphausia pacifica. Marine and Freshwater Behaviour and Physiology, 2003, 36, 307-319.	0.9	47
40	Fluid mechanics produces conflicting, constraints during olfactory navigation of blue crabs,Callinectes sapidus. Journal of Experimental Biology, 2003, 206, 171-180.	1.7	46
41	Experiments on Lagrangian transport in steady vortex-breakdown bubbles in a confined swirling flow. Journal of Fluid Mechanics, 2002, 466, 215-248.	3.4	32
42	Chemosensory guidance cues in a turbulent chemical odor plume. Limnology and Oceanography, 2001, 46, 1034-1047.	3.1	139
43	On the usefulness of bilateral comparison to tracking turbulent chemical odor plumes. Limnology and Oceanography, 2001, 46, 1048-1053.	3.1	48
44	Jet pinch-off and drop formation in immiscible liquid-liquid systems. Experiments in Fluids, 2001, 30, 47-56.	2.4	36
45	Simultaneous DPTV/PLIF measurements of a turbulent jet. Experiments in Fluids, 2001, 30, 65-72.	2.4	79
46	Characteristics of Turbulent Plumes Using PLIF Technique. , 2000, , 1.		0
47	Virtual Plume. Electroanalysis, 2000, 12, 974-979.	2.9	9
48	Turbulence characteristics of a boundary layer over a swept bump. Journal of Fluid Mechanics, 1996, 323, 1-22.	3.4	34
49	Turbulence characteristics of a boundary layer over a two-dimensional bump. Journal of Fluid Mechanics, 1996, 320, 53.	3.4	81
50	The effect of threeâ€dimensionality on a laminarizing boundary layer. Physics of Fluids, 1995, 7, 1782-1784.	4.0	1
51	Trends in Stroke Kinematics, Reynolds Number, and Swimming Mode in Shrimp-Like Organisms. Integrative and Comparative Biology, 0, , .	2.0	2