

Grant B Deane

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

2,557
citations

24
h-index

50
g-index

71
ext. papers

3,131
ext. citations

4.4
avg, IF

5.09
L-index

#	Paper	IF	Citations
65	Scale dependence of bubble creation mechanisms in breaking waves. <i>Nature</i> , 2002 , 418, 839-44	50.4	416
64	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7550-5	11.5	345
63	Sea spray aerosol as a unique source of ice nucleating particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5797-803	11.5	255
62	Sound generation and air entrainment by breaking waves in the surf zone. <i>Journal of the Acoustical Society of America</i> , 1997 , 102, 2671-2689	2.2	127
61	Surface wave focusing and acoustic communications in the surf zone. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 2067-2080	2.2	126
60	The role of jet and film drops in controlling the mixing state of submicron sea spray aerosol particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6978-6983 ⁹⁶	11.5	96
59	A Marine Aerosol Reference Tank system as a breaking wave analogue for the production of foam and sea-spray aerosols. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1085-1094	4	77
58	Imaging in the ocean with ambient noise: the ORB experiments. <i>Journal of the Acoustical Society of America</i> , 1999 , 106, 3211-3225	2.2	68
57	Effect of soluble surfactant on bubble persistence and bubble-produced aerosol particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1388-1400	4.4	67
56	Spatial and Temporal Variability of Internal Wave Forcing on a Coral Reef. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1945-1962	2.4	67
55	An analysis of the three-dimensional sound field in a penetrable wedge with a stratified fluid or elastic basement. <i>Journal of the Acoustical Society of America</i> , 1993 , 93, 1319-1328	2.2	64
54	Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. <i>ACS Central Science</i> , 2016 , 2, 40-47	16.8	55
53	Automated processing of coral reef benthic images. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 157-168	2.6	51
52	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 8860-70	2.8	48
51	Considerations on bubble fragmentation models. <i>Journal of Fluid Mechanics</i> , 2010 , 661, 159-177	3.7	45
50	Estimating the compressional and shear wave speeds of a shallow water seabed from the vertical coherence of ambient noise in the water column. <i>Journal of the Acoustical Society of America</i> , 1998 , 103, 801-813	2.2	43
49	Acoustic hot-spots and breaking wave noise in the surf zone. <i>Journal of the Acoustical Society of America</i> , 1999 , 105, 3151-3167	2.2	38

48	Model calculations of the underwater noise of breaking waves and comparison with experiment. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 3394-410	2.2	36
47	Observed variation in the decay time of oceanic whitecap foam. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		35
46	Two Regimes of Laboratory Whitecap Foam Decay: Bubble-Plume Controlled and Surfactant Stabilized. <i>Journal of Physical Oceanography</i> , 2013 , 43, 1114-1126	2.4	35
45	Observed physical and environmental causes of scatter in whitecap coverage values in a fetch-limited coastal zone. <i>Journal of Geophysical Research</i> , 2008 , 113,		33
44	The effect of water temperature on air entrainment, bubble plumes, and surface foam in a laboratory breaking-wave analog. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 7463-7482	3.3	32
43	Underwater acoustic signatures of glacier calving. <i>Geophysical Research Letters</i> , 2015 , 42, 804-812	4.9	30
42	A mechanism stimulating sound production from air bubbles released from a nozzle. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, EL126-32	2.2	28
41	Bioluminescence imaging of wave-induced turbulence. <i>Journal of Geophysical Research</i> , 2004 , 109,		24
40	Deterministic forward scatter from surface gravity waves. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 3673-86	2.2	21
39	. <i>IEEE Journal of Oceanic Engineering</i> , 2013 , 38, 632-641	3.3	19
38	Long time-base observations of surf noise. <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 758-770	2.2	19
37	The Saturation of Fluid Turbulence in Breaking Laboratory Waves and Implications for Whitecaps. <i>Journal of Physical Oceanography</i> , 2016 , 46, 975-992	2.4	17
36	Directionality of the ambient noise field in an Arctic, glacial bay. <i>Journal of the Acoustical Society of America</i> , 2014 , 136, EL350-6	2.2	17
35	Pharmacological investigation of the bioluminescence signaling pathway of the dinoflagellate <i>Lingulodinium polyedrum</i> : evidence for the role of stretch-activated ion channels. <i>Journal of Phycology</i> , 2013 , 49, 733-45	3	17
34	Laboratory air-entraining breaking waves: Imaging visible foam signatures to estimate energy dissipation. <i>Geophysical Research Letters</i> , 2016 , 43, 11,320	4.9	17
33	Reconstructing surface wave profiles from reflected acoustic pulses. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 2597-611	2.2	14
32	Contributions to the acoustic excitation of bubbles released from a nozzle. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 2625-34	2.2	14
31	The acoustic excitation of air bubbles fragmenting in sheared flow. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 3450-63	2.2	14

30	The impact of glacier meltwater on the underwater noise field in a glacial bay. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 8455-8470	3.3	14
29	A quantitative model for flow-induced bioluminescence in dinoflagellates. <i>Journal of Theoretical Biology</i> , 2005 , 237, 147-69	2.3	13
28	Importance of Supermicron Ice Nucleating Particles in Nascent Sea Spray. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL089633	4.9	12
27	Quantifying iceberg calving fluxes with underwater noise. <i>Cryosphere</i> , 2020 , 14, 1025-1042	5.5	10
26	On the imprint of surfactant-driven stabilization of laboratory breaking wave foam with comparison to oceanic whitecaps. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 6110-6128	3.3	10
25	Internal friction and boundary conditions in lossy fluid seabeds. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 233-240	2.2	9
24	Determining the bubble cap film thickness of bursting bubbles from their acoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, EL69-75	2.2	8
23	Measurements of Large Bubbles in Open-Ocean Whitecaps. <i>Geophysical Monograph Series</i> , 2013 , 279-284.1		8
22	Biological Influence on $\delta^{13}C$ and Organic Composition of Nascent Sea Spray Aerosol. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 1686-1699	3.2	8
21	Bubble stimulation efficiency of dinoflagellate bioluminescence. <i>Luminescence</i> , 2016 , 31, 270-80	2.5	7
20	The Intensity, Directionality, and Statistics of Underwater Noise From Melting Icebergs. <i>Geophysical Research Letters</i> , 2018 , 45, 4105-4113	4.9	7
19	Reconstructing surface wave profiles from reflected acoustic pulses using multiple receivers. <i>Journal of the Acoustical Society of America</i> , 2014 , 136, 604-13	2.2	6
18	Two-element acoustic array gives insight into ice-ocean interactions in Hornsund Fjord, Spitsbergen. <i>Polish Polar Research</i> , 2015 , 36, 355-367		5
17	A robust and accurate technique for Lagrangian tracking of bubbles and detecting fragmentation and coalescence. <i>International Journal of Multiphase Flow</i> , 2021 , 135, 103523	3.6	5
16	A three-dimensional analysis of sound propagation in faceted geometries. <i>Journal of the Acoustical Society of America</i> , 1994 , 96, 2897-2907	2.2	4
15	Intensity statistics of very high frequency sound scattered from wind-driven waves. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 2784	2.2	3
14	Surface tension effects in breaking wave noise. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 700-8	2.2	2
13	Vertical directionality and spatial coherence of the sound field in glacial bays in Hornsund Fjord. <i>Journal of the Acoustical Society of America</i> , 2020 , 148, 3849	2.2	2

12	Determination of ocean surface wave shape from forward scattered sound. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 787	2.2	2
11	On the Interpretation of Coherent Marine Radar Backscatter From Surf Zone Waves. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-14	8.1	2
10	Impact of Persistent Bubbles on Underwater Acoustic Communication 2018 ,		2
9	A Semi-Blind Method for Localization of Underwater Acoustic Sources. <i>IEEE Transactions on Signal Processing</i> , 2022 , 1-1	4.8	2
8	On the Reusability of Postexperimental Field Data for Underwater Acoustic Communications R&D. <i>IEEE Journal of Oceanic Engineering</i> , 2019 , 44, 912-931	3.3	1
7	A numerical framework for simulating the atmospheric variability of supermicron marine biogenic ice nucleating particles. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 847-859	6.8	1
6	Bubble production by air filament and cavity breakup in plunging breaking wave crests. <i>Journal of Fluid Mechanics</i> , 2021 , 929,	3.7	1
5	Making the most of field data to support underwater acoustic communications R&D 2018 ,		1
4	Biologically Induced Changes in the Partitioning of Submicron Particulates Between Bulk Seawater and the Sea Surface Microlayer. <i>Geophysical Research Letters</i> , 2022 , 49, e2021GL094587	4.9	0
3	A numerical simulation framework for bubbly flow and sound generation in laboratory-scale breaking waves. <i>JASA Express Letters</i> , 2021 , 1, 100801		0
2	Model-data comparison of sound propagation in a glacierized fjord with a simulated brash ice surface.. <i>Journal of the Acoustical Society of America</i> , 2022 , 151, 2367	2.2	0
1	Analysis of sound pressure levels generated by nozzle-emitted large bubbles. <i>JASA Express Letters</i> , 2022 , 2, 054002		0