

Michael J Buckingham

List of Publications by Year in descending order

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45
papers

1,549
citations

361045
20
h-index

301761
39
g-index

46
all docs

46
docs citations

46
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave propagation, stress relaxation, and grain-to-grain shearing in saturated, unconsolidated marine sediments. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 2796-2815.	0.5	175
2	Theory of acoustic attenuation, dispersion, and pulse propagation in unconsolidated granular materials including marine sediments. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 2579-2596.	0.5	156
3	Compressional and shear wave properties of marine sediments: Comparisons between theory and data. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 137-152.	0.5	140
4	Imaging the ocean with ambient noise. <i>Nature</i> , 1992, 356, 327-329.	13.7	109
5	Imaging in the ocean with ambient noise: the ORB experiments. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 3211-3225.	0.5	109
6	On pore-fluid viscosity and the wave properties of saturated granular materials including marine sediments. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 1486-1501.	0.5	104
7	A new shallow-ocean technique for determining the critical angle of the seabed from the vertical directionality of the ambient noise in the water column. <i>Journal of the Acoustical Society of America</i> , 1987, 81, 938-946.	0.5	69
8	Theory of compressional and shear waves in fluidlike marine sediments. <i>Journal of the Acoustical Society of America</i> , 1998, 103, 288-299.	0.5	68
9	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.	0.5	58
10	Causality, Stokes' wave equation, and acoustic pulse propagation in a viscous fluid. <i>Physical Review E</i> , 2005, 72, 026610.	0.8	46
11	Depth dependence of wind-driven, broadband ambient noise in the Philippine Sea. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 62-71.	0.5	44
12	Measurements of scattering by suspensions of irregularly shaped sand particles and comparison with a single parameter modified sphere model. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 2876-2889.	0.5	39
13	Deep Sound: A Free-Falling Sensor Platform for Depth-Profiling Ambient Noise in the Deep Ocean. <i>Marine Technology Society Journal</i> , 2009, 43, 144-150.	0.3	33
14	Maximum Entropy Derived Statistics of Sound-Speed Structure in a Fine-Grained Sediment Inferred From Sparse Broadband Acoustic Measurements on the New England Continental Shelf. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 161-173.	2.1	30
15	On the acoustic field in a Pekeris waveguide with attenuation in the bottom half-space. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 123-142.	0.5	27
16	The origins of ambient biological sound from coral reef ecosystems in the Line Islands archipelago. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1775-1788.	0.5	26
17	Source depth and the spatial coherence of ambient noise in the ocean. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 2637-2644.	0.5	23
18	Theory of compressional and transverse wave propagation in consolidated porous media. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 575-581.	0.5	22

#	ARTICLE	IF	CITATIONS
19	On the two-point cross-correlation function of anisotropic, spatially homogeneous ambient noise in the ocean and its relationship to the Green's function. Journal of the Acoustical Society of America, 2011, 129, 3562-3576.	0.5	22
20	Analysis of shear-wave attenuation in unconsolidated sands and glass beads. Journal of the Acoustical Society of America, 2014, 136, 2478-2488.	0.5	22
21	The depth-dependence of rain noise in the Philippine Sea. Journal of the Acoustical Society of America, 2013, 133, 2576-2585.	0.5	20
22	On the transient solutions of three acoustic wave equations: van Wijngaarden's equation, Stokes' equation and the time-dependent diffusion equation. Journal of the Acoustical Society of America, 2008, 124, 1909-1920.	0.5	18
23	Cross-correlation in band-limited ocean ambient noise fields. Journal of the Acoustical Society of America, 2012, 131, 2643-2657.	0.5	18
24	On the shapes of natural sand grains. Journal of Geophysical Research, 2009, 114, .	3.3	17
25	Theory of the directionality and spatial coherence of wind-driven ambient noise in a deep ocean with attenuation. Journal of the Acoustical Society of America, 2013, 134, 950-958.	0.5	17
26	Estimation of the Geoacoustic Properties of the New England Mud Patch From the Vertical Coherence of the Ambient Noise in the Water Column. IEEE Journal of Oceanic Engineering, 2020, 45, 51-59.	2.1	17
27	THEORY OF ACOUSTIC IMAGING IN THE OCEAN WITH AMBIENT NOISE. Journal of Computational Acoustics, 1993, 01, 117-140.	1.0	16
28	A three-parameter dispersion relationship for Biot's fast compressional wave in a marine sediment. Journal of the Acoustical Society of America, 2004, 116, 769-776.	0.5	15
29	On the spatial properties of ambient noise in the Tonga Trench, including effects of bathymetric shadowing. Journal of the Acoustical Society of America, 2014, 136, 2497-2511.	0.5	13
30	Cross-correlation, triangulation, and curved-wavefront focusing of coral reef sound using a bi-linear hydrophone array. Journal of the Acoustical Society of America, 2015, 137, 30-41.	0.5	13
31	Estimating the sound speed of a shallow-water marine sediment from the head wave excited by a low-flying helicopter. Journal of the Acoustical Society of America, 2017, 142, 2273-2287.	0.5	11
32	Wave speed and attenuation profiles in a stratified marine sediment: Geo-acoustic modeling of seabed layering using the viscous grain shearing theory. Journal of the Acoustical Society of America, 2020, 148, 962-974.	0.5	11
33	On the sound field from a moving source in a viscous medium. Journal of the Acoustical Society of America, 2003, 114, 3112-3118.	0.5	9
34	Wave-speed dispersion associated with an attenuation obeying a frequency power law. Journal of the Acoustical Society of America, 2015, 138, 2871-2884.	0.5	9
35	On the phase speed and attenuation of an interface wave in an unconsolidated marine sediment. Journal of the Acoustical Society of America, 1999, 106, 1694-1703.	0.5	6
36	Statistical Inference of Sound Speed and Attenuation Dispersion of a Fine-Grained Marine Sediment. IEEE Journal of Oceanic Engineering, 2022, 47, 553-564.	2.1	6

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37	The dispersion formula and the Green's function associated with an attenuation obeying a frequency power law. Journal of the Acoustical Society of America, 2018, 144, 755-765.	0.5	3
38	Wave and Material Properties of Marine Sediments: Theoretical Relationships for Geoacoustic Inversions. AIP Conference Proceedings, 2004, , .	0.3	2
39	Numerical Simulation and Linearized Theory of Vortex Waves in a Viscoelastic, Polymeric Fluid. Fluids, 2021, 6, 325.	0.8	2
40	On acoustic reflection from a seabed exhibiting a non-uniform sound speed profile, with relevance to fine-grained sediments. Journal of the Acoustical Society of America, 2022, 151, 3535-3546.	0.5	2
41	The compressional and shear wave speeds of a seabed in shallow water determined from ambient noise measurements. , 1996, , .		1
42	Observation, theory and simulation of anisotropy in oceanic ambient noise fields and its relevance to Acoustic Daylight imaging. , 1996, , .		1
43	Ambient noise measurements with deep sound in the Philippine Sea. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
44	The Causal Properties of the Compressional Wave in an Unconsolidated Marine Sediment. Journal of Theoretical and Computational Acoustics, 2020, 28, 2050003.	0.5	0
45	The Naval science of Albert Beaumont Wood, O.B.E., D.Sc.. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0