

# Bruce M Howe

## List of Publications by Year in descending order

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103  
papers

3,846  
citations

159358

30  
h-index

133063

59  
g-index

146  
all docs

146  
docs citations

146  
times ranked

2809  
citing authors

#	ARTICLE	IF	CITATIONS
1	SMART Subsea Cables for Observing the Earth and Ocean, Mitigating Environmental Hazards, and Supporting the Blue Economy. <i>Frontiers in Earth Science</i> , 2022, 9, .	0.8	13
2	The Deep Ocean Observing Strategy: Addressing Global Challenges in the Deep Sea Through Collaboration. <i>Marine Technology Society Journal</i> , 2022, 56, 50-66.	0.3	7
3	Underwater Time-Gated Standoff Raman Sensor for In Situ Chemical Sensing. <i>Applied Spectroscopy</i> , 2021, 75, 739-746.	1.2	4
4	Temperature-driven seasonal and longer term changes in spatially averaged deep ocean ambient sound at frequencies 63â€“125â€‰Hz. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2531-2545.	0.5	10
5	Envisioning a Global Multi-Purpose Ocean Acoustic Network. <i>Marine Technology Society Journal</i> , 2021, 55, 78-79.	0.3	2
6	SMART Subsea Cables for Observing the Ocean and Earth. <i>Marine Technology Society Journal</i> , 2021, 55, 62-63.	0.3	0
7	SMART Cables Observing the Oceans and Earth. , 2021, , .		1
8	Real-Time Offshore Coastal Acoustic Tomography Enabled With Mirror-Transpond Functionality. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 645-655.	2.1	10
9	Automated matching of measured long-range acoustic arrivals from autonomous gliders with acoustic predictions. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 2663-2663.	0.5	0
10	SMART Cables for Observing the Global Ocean: Science and Implementation. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	73
11	Observing the Oceans Acoustically. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	69
12	Global Observing Needs in the Deep Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	166
13	Variation of Residual Current in the Seto Inland Sea Driven by Sea Level Difference Between the Bungo and Kii Channels. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2921-2933.	1.0	9
14	Scientific Monitoring And Reliable Telecommunications (SMART) Cable Systems: Integration of Sensors into Telecommunications Repeaters. , 2018, , .		3
15	A Seaglider-Integrated Digital Monitor for Bioacoustic Sensing. <i>IEEE Journal of Oceanic Engineering</i> , 2017, 42, 800-807.	2.1	13
16	Estimating Range-Dependent Evaporation Duct Height. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 1113-1123.	0.5	9
17	Commercial Underwater Cable Systems Could Reduce Disaster Impact. <i>Eos</i> , 2017, , .	0.1	6
18	Deep Trouble! Common Problems for Ocean Observatories. <i>Eos</i> , 2017, , .	0.1	1

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19	Listening for Whales at the Station ALOHA Cabled Observatory. <i>Modern Acoustics and Signal Processing</i> , 2016, , 221-237.	0.8	1
20	Acoustic measurement of the net transport through the Seto Inland Sea. <i>Acoustical Science and Technology</i> , 2016, 37, 10-20.	0.3	15
21	Localization and Subsurface Position Error Estimation of Gliders Using Broadband Acoustic Signals at Long Range. <i>IEEE Journal of Oceanic Engineering</i> , 2016, 41, 501-508.	2.1	19
22	Submarine Cable Systems for Future Societal Needs. <i>Eos</i> , 2016, 97, .	0.1	1
23	Actively Controllable Switching for Tree Topology Seafloor Observation Networks. <i>IEEE Journal of Oceanic Engineering</i> , 2015, 40, 993-1002.	2.1	19
24	An Inductive Charging and Real-Time Communications System for Profiling Moorings. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 2243-2252.	0.5	5
25	The ALOHA cabled observatory. , 2015, , 439-463.		7
26	A Deep Cabled Observatory: Biology and Physics in the Abyss. <i>Eos</i> , 2014, 95, 429-430.	0.1	2
27	Diversity-based acoustic communication with a glider in deep water. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1023-1026.	0.5	59
28	Estimating uncertainty in subsurface glider position using transmissions from fixed acoustic tomography sources. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3260-3271.	0.5	29
29	Observations and transport theory analysis of low frequency, acoustic mode propagation in the Eastern North Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3144-3160.	0.5	11
30	Deep seafloor arrivals in long range ocean acoustic propagation. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3307-3317.	0.5	8
31	The North Pacific Acoustic Laboratory deep-water acoustic propagation experiments in the Philippine Sea. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3359-3375.	0.5	72
32	Reduced rank models for travel time estimation of low order mode pulses. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3332-3346.	0.5	4
33	Weakly dispersive modal pulse propagation in the North Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3386-3394.	0.5	7
34	A numerical model for ocean ultra-low frequency noise: Wave-generated acoustic-gravity and Rayleigh modes. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3242-3259.	0.5	26
35	Measuring the Kuroshio Current with ocean acoustic tomography. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3272-3281.	0.5	19
36	Towards subsurface positioning of gliders using fixed acoustic tomography sources. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0

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37	Modal analysis of the range evolution of broadband wavefields in the North Pacific Ocean: Low mode numbers. Journal of the Acoustical Society of America, 2012, 131, 4409-4427.	0.5	16
38	Bottom interacting sound at 50-km range in a deep ocean environment. Journal of the Acoustical Society of America, 2012, 132, 2224-2231.	0.5	7
39	Passive and active acoustics using an autonomous wave glider. Journal of Field Robotics, 2012, 29, 911-923.	3.2	67
40	Moored observations of episodic abyssal flow and mixing at station ALOHA. Geophysical Research Letters, 2011, 38, .	1.5	11
41	ALOHA cabled observatory installation. , 2011, , .		17
42	Acoustic Seagliders in PhilSea10: Preliminary results. , 2011, , .		1
43	Long-time trends in ship traffic noise for four sites off the North American West Coast. Journal of the Acoustical Society of America, 2011, 129, 642-651.	0.5	118
44	Ship-Suspended Acoustical Transmitter Position Estimation and Motion Compensation. IEEE Journal of Oceanic Engineering, 2010, 35, 797-810.	2.1	2
45	A Smart Sensor Web for Ocean Observation: Fixed and Mobile Platforms, Integrated Acoustics, Satellites and Predictive Modeling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 507-521.	2.3	40
46	Long-time trends in low-frequency traffic noise for four sites off the North American west coast.. Journal of the Acoustical Society of America, 2010, 127, 1783-1783.	0.5	3
47	Deep seafloor arrivals: An unexplained set of arrivals in long-range ocean acoustic propagation. Journal of the Acoustical Society of America, 2009, 126, 599-606.	0.5	14
48	Temporal and vertical scales of acoustic fluctuations for 75-Hz, broadband transmissions to 87-km range in the eastern North Pacific Ocean. Journal of the Acoustical Society of America, 2009, 126, 1069-1083.	0.5	5
49	The interference component of the acoustic field corresponding to the Long-Range Ocean Acoustic Propagation Experiment. Journal of the Acoustical Society of America, 2009, 125, 1919-1929.	0.5	6
50	A decade of acoustic thermometry in the North Pacific Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	52
51	LOAPEX: The Long-Range Ocean Acoustic Propagation EXperiment. IEEE Journal of Oceanic Engineering, 2009, 34, 1-11.	2.1	45
52	Deep seafloor arrivals: Scattering or multi-path from ocean thermal structure?. Journal of the Acoustical Society of America, 2009, 126, 2159.	0.5	1
53	Sensor Network Infrastructure: Moorings, Mobile Platforms, and Integrated Acoustics. , 2007, , .		5
54	Optimization Based Load Management for the NEPTUNE Power System. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	2

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55	Including Whale Call Detection in Standard Ocean Measurements: Application of Acoustic Seagliders. Marine Technology Society Journal, 2007, 41, 53-57.	0.3	32
56	Fault Location for the NEPTUNE Power System. IEEE Transactions on Power Systems, 2007, 22, 522-531.	4.6	25
57	Barotropic Rossby wave radiation from a model Gulf Stream. Geophysical Research Letters, 2007, 34, .	1.5	4
58	Oceanographic Measurements. , 2007, , 1179-1217.		0
59	NEPTUNE Power System: Science Node Converter Startup Operations Design and Implementation Circuit. , 2006, , .		1
60	NEPTUNE power system: startup power supply for 10 kV to 400 V Dc-Dc converters. , 2006, , .		4
61	Acoustic Systems for Global Observatory Studies. , 2006, , .		1
62	Evaluation of a Long-Range Joint Acoustic Navigation / Thermometry System. , 2006, , .		13
63	Analysis of multipath acoustic field variability and coherence in the finale of broadband basin-scale transmissions in the North Pacific Ocean. Journal of the Acoustical Society of America, 2005, 117, 1538-1564.	0.5	25
64	Horizontal refraction of acoustic signals retrieved from North Pacific Acoustic Laboratory billboard array data. Journal of the Acoustical Society of America, 2005, 117, 1527-1537.	0.5	24
65	Transverse horizontal spatial coherence of deep arrivals at megameter ranges. Journal of the Acoustical Society of America, 2005, 117, 1511-1526.	0.5	12
66	The effect of bottom interaction on transmissions from the North Pacific Acoustic Laboratory Kauai source. Journal of the Acoustical Society of America, 2005, 117, 1624-1634.	0.5	16
67	Mode coherence at megameter ranges in the North Pacific Ocean. Journal of the Acoustical Society of America, 2005, 117, 1565-1581.	0.5	39
68	Statistics and vertical directionality of low-frequency ambient noise at the North Pacific Acoustics Laboratory site. Journal of the Acoustical Society of America, 2005, 117, 1643-1665.	0.5	22
69	North East Pacific Time-Integrated Undersea Networked Experiments (NEPTUNE): Cable Switching and Protection. IEEE Journal of Oceanic Engineering, 2005, 30, 232-240.	2.1	31
70	Topology Error Identification for the NEPTUNE Power System. IEEE Transactions on Power Systems, 2005, 20, 1224-1232.	4.6	13
71	Global Assimilation of Ionospheric Measurements (GAIM). Radio Science, 2004, 39, n/a-n/a.	0.8	309
72	Acoustic Sensing for Ocean Research. Marine Technology Society Journal, 2004, 38, 144-154.	0.3	18

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73	Ocean ambient sound: Comparing the 1960s with the 1990s for a receiver off the California coast. <i>Acoustics Research Letters Online: ARLO</i> , 2002, 3, 65-70.	0.7	325
74	Power system considerations for undersea observatories. <i>IEEE Journal of Oceanic Engineering</i> , 2002, 27, 267-274.	2.1	61
75	NEPTUNE: Real-Time Ocean and Earth Sciences at the Scale of a Tectonic Plate. <i>Oceanography</i> , 2000, 13, 71-79.	0.5	38
76	Ocean mixing studied near Hawaiian Ridge. <i>Eos</i> , 2000, 81, 545.	0.1	27
77	Comparisons of measured and predicted acoustic fluctuations for a 3250-km propagation experiment in the eastern North Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 3202-3218.	0.5	98
78	A test of basin-scale acoustic thermometry using a large-aperture vertical array at 3250-km range in the eastern North Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 3185-3201.	0.5	204
79	Low-frequency ambient sound in the North Pacific: Long time series observations. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 3189-3200.	0.5	86
80	Multimegameter-range acoustic data obtained by bottom-mounted hydrophone arrays for measurement of ocean temperature. <i>IEEE Journal of Oceanic Engineering</i> , 1999, 24, 202-214.	2.1	65
81	A review of recent results on ocean acoustic wave propagation in random media: basin scales. <i>IEEE Journal of Oceanic Engineering</i> , 1999, 24, 138-155.	2.1	38
82	Tomography of the ionosphere: Four-dimensional simulations. <i>Radio Science</i> , 1998, 33, 109-128.	0.8	120
83	A TOPEX/POSEIDON global tidal model (TPXO.2) and barotropic tidal currents determined from long-range acoustic transmissions. <i>Progress in Oceanography</i> , 1997, 40, 337-367.	1.5	61
84	Barotropic and Baroclinic Tides in the Central North Pacific Ocean Determined from Long-Range Reciprocal Acoustic Transmissions. <i>Journal of Physical Oceanography</i> , 1995, 25, 631-647.	0.7	184
85	A comparison of measured and predicted broadband acoustic arrival patterns in travel timeâ€“depth coordinates at 1000â€“km range. <i>Journal of the Acoustical Society of America</i> , 1994, 95, 3118-3128.	0.5	54
86	Nonperturbative ocean acoustic tomography inversion of 1000â€“km pulse propagation in the Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 3054-3063.	0.5	5
87	A status report on applying discrete inverse theory to ionospheric tomography. <i>International Journal of Imaging Systems and Technology</i> , 1994, 5, 97-105.	2.7	25
88	Barotropic currents and vorticity in the central North Pacific Ocean during summer 1987 determined from long-range reciprocal acoustic transmissions. <i>Journal of Geophysical Research</i> , 1994, 99, 3263.	3.3	30
89	On equations for the speed of sound in seawater. <i>Journal of the Acoustical Society of America</i> , 1993, 93, 255-275.	0.5	119
90	Variability of Heat Content in the Central North Pacific in Summer 1987 Determined from Long-Range Acoustic Transmissions. <i>Journal of Physical Oceanography</i> , 1993, 23, 2650-2666.	0.7	26

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91	Ocean acoustic tomography at 1000â€m range using wavefronts measured with a largeâ€ aperture vertical array. Journal of Geophysical Research, 1993, 98, 16365-16377.	3.3	25
92	Measured waveâ€ front fluctuations in 1000â€m pulse propagation in the Pacific Ocean. Journal of the Acoustical Society of America, 1992, 92, 939-955.	0.5	80
93	Application of stochastic inverse theory to ionospheric tomography. Radio Science, 1992, 27, 721-732.	0.8	148
94	Slice89: A Single Slice Tomography Experiment. , 1991, , 81-86.		6
95	Gyre-Scale Reciprocal Acoustic Transmissions. , 1991, , 119-134.		9
96	Deep-sea moorings in a tidal current. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 111-119.	1.6	6
97	Ocean acoustic tomography: Mesoscale velocity. Journal of Geophysical Research, 1987, 92, 3785-3805.	3.3	120
98	Multiple receivers in single vertical slice ocean acoustic tomography experiments. Journal of Geophysical Research, 1987, 92, 9479-9486.	3.3	12
99	High spatial resolution in vertical slice ocean acoustic tomography. Journal of Geophysical Research, 1987, 92, 11680-11692.	3.3	29
100	Acoustic measurements of internal wave rms displacement and rms horizontal current off Bermuda in late 1983. Journal of Geophysical Research, 1986, 91, 7721-7732.	3.3	17
101	Reciprocal acoustic transmissions: Instrumentation for Mesoscale monitoring of ocean currents. IEEE Journal of Oceanic Engineering, 1985, 10, 123-137.	2.1	58
102	Comparison of Profiles and Fluxes of Heat and Momentum Above and Below an Air-Water Interface. Journal of Heat Transfer, 1982, 104, 34-39.	1.2	24
103	A Numerical Study of SMART Cables Potential in Marine Hazard Early Warning for the Sumatra and Java Regions. Pure and Applied Geophysics, 0, , 1.	0.8	3