Matthew A Dzieciuch

List of Publications by Year
in descending order

90	2,371	279487 23	233125 45
papers	citations	h-index	g-index

143	143	143	1450
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ocean ambient sound: Comparing the 1960s with the 1990s for a receiver off the California coast. Acoustics Research Letters Online: ARLO, 2002, 3, 65-70.	0.7	325
2	Extracting coherent wave fronts from acoustic ambient noise in the ocean. Journal of the Acoustical Society of America, 2004, 116, 1995-2003.	0.5	281
3	A test of basin-scale acoustic thermometry using a large-aperture vertical array at 3250-km range in the eastern North Pacific Ocean. Journal of the Acoustical Society of America, 1999, 105, 3185-3201.	0.5	204
4	Comparisons of measured and predicted acoustic fluctuations for a 3250-km propagation experiment in the eastern North Pacific Ocean. Journal of the Acoustical Society of America, 1999, 105, 3202-3218.	0.5	98
5	The North Pacific Acoustic Laboratory deep-water acoustic propagation experiments in the Philippine Sea. Journal of the Acoustical Society of America, 2013, 134, 3359-3375.	0.5	72
6	Multimegameter-range acoustic data obtained by bottom-mounted hydrophone arrays for measurement of ocean temperature. IEEE Journal of Oceanic Engineering, 1999, 24, 202-214.	2.1	65
7	Feasibility of global-scale synthetic aperture communications. Journal of the Acoustical Society of America, 2009, 125, 8-10.	0.5	65
8	Ocean Climate Change: Comparison of Acoustic Tomography, Satellite Altimetry, and Modeling. , 1998, 281, 1327-1332.		63
9	Millennial Climate Variability: Is There a Tidal Connection?. Journal of Climate, 2002, 15, 370-385.	1.2	59
10	A decade of acoustic thermometry in the North Pacific Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	52
11	Resolving quadrature fringes in real time. Applied Optics, 2004, 43, 771.	2.1	47
12	The vertical structure of shadow-zone arrivals at long range in the ocean. Journal of the Acoustical Society of America, 2009, 125, 3569-3588.	0.5	45
13	LOAPEX: The Long-Range Ocean Acoustic Propagation EXperiment. IEEE Journal of Oceanic Engineering, 2009, 34, 1-11.	2.1	45
14	On the predictability of mode-1 internal tides. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 677-698.	0.6	45
15	Mode coherence at megameter ranges in the North Pacific Ocean. Journal of the Acoustical Society of America, 2005, 117, 1565-1581.	0.5	39
16	A review of recent results on ocean acoustic wave propagation in random media: basin scales. IEEE Journal of Oceanic Engineering, 1999, 24, 138-155.	2.1	38
17	Turning point filters: Analysis of sound propagation on a gyre-scale. Journal of the Acoustical Society of America, 2001, 110, 135-149.	0.5	38
18	Further analysis of intensity fluctuations from a 3252-km acoustic propagation experiment in the eastern North Pacific Ocean. Journal of the Acoustical Society of America, 2001, 110, 163-169.	0.5	29

#	Article	IF	Citations
19	Estimating uncertainty in subsurface glider position using transmissions from fixed acoustic tomography sources. Journal of the Acoustical Society of America, 2013, 134, 3260-3271.	0.5	29
20	Vertical line array measurements of ambient noise in the North Pacific. Journal of the Acoustical Society of America, 2017, 141, 1571-1581.	0.5	26
21	Propagation of sound through a spicy ocean, the SOFAR overture. Journal of the Acoustical Society of America, 2004, 116, 1447-1462.	0.5	25
22	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
23	Effects of upper ocean sound-speed structure on deep acoustic shadow-zone arrivals at 500- and 1000-km range. Journal of the Acoustical Society of America, 2010, 127, 2169-2181.	0.5	25
24	Observations of sound-speed fluctuations in the western Philippine Sea in the spring of 2009. Journal of the Acoustical Society of America, 2013, 134, 3185-3200.	0.5	25
25	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
26	Ocean acoustic tomography. Journal of Physics: Conference Series, 2008, 118, 012002.	0.3	23
27	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
28	Signal processing and tracking of arrivals in ocean acoustic tomography. Journal of the Acoustical Society of America, 2014, 136, 2512-2522.	0.5	22
29	Eastern Arctic ambient noise on a drifting vertical array. Journal of the Acoustical Society of America, 2017, 142, 1997-2006.	0.5	22
30	Temporal and spatial dependence of a yearlong record of sound propagation from the Canada Basin to the Chukchi Shelf. Journal of the Acoustical Society of America, 2020, 148, 1663-1680.	0.5	22
31	Localization and Subsurface Position Error Estimation of Gliders Using Broadband Acoustic Signals at Long Range. IEEE Journal of Oceanic Engineering, 2016, 41, 501-508.	2.1	19
32	Signals, signal processing, and general results. Journal of the Acoustical Society of America, 1994, 96, 2343-2352.	0.5	18
33	On the timeâ€mean state of ocean models and the properties of long range acoustic propagation. Journal of Geophysical Research: Oceans, 2013, 118, 4346-4362.	1.0	18
34	Time series of temperature in Fram Strait determined from the 2008â€“2009 DAMOCLES acoustic tomography measurements and an ocean model. Journal of Geophysical Research: Oceans, 2016, 121, 4601-4617.	1.0	18
35	Deep ocean long range underwater navigation. Journal of the Acoustical Society of America, 2020, 147, 2365-2382.	0.5	18
36	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

#	Article	IF	Citations
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	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
39	A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System. Frontiers in Marine Science, 2019, 6, .	1.2	14
40	Travel-time sensitivity kernels in long-range propagation. Journal of the Acoustical Society of America, 2009, 126, 2223-2233.	0.5	13
41	Observations of phase and intensity fluctuations for low-frequency, long-range transmissions in the Philippine Sea and comparisons to path-integral theory. Journal of the Acoustical Society of America, 2019, 146, 567-585.	0.5	13
42	Transverse horizontal spatial coherence of deep arrivals at megameter ranges. Journal of the Acoustical Society of America, 2005, 117, 1511-1526.	0.5	12
43	Deep water acoustic range estimation based on an ocean general circulation model: Application to PhilSea10 data. Journal of the Acoustical Society of America, 2019, 146, 4754-4773.	0.5	12
44	Observations of sound-speed fluctuations in the Beaufort Sea from summer 2016 to summer 2017. Journal of the Acoustical Society of America, 2021, 149, 1536-1548.	0.5	12
45	Observations and transport theory analysis of low frequency, acoustic mode propagation in the Eastern North Pacific Ocean. Journal of the Acoustical Society of America, 2013, 134, 3144-3160.	0.5	11
46	Wavefront intensity statistics for 284-Hz broadband transmissions to 107-km range in the Philippine Sea: Observations and modeling. Journal of the Acoustical Society of America, 2013, 134, 3347-3358.	0.5	11
47	Structure and stability of wave-theoretic kernels in the ocean. Journal of the Acoustical Society of America, 2013, 134, 3318-3331.	0.5	10
48	A deep ocean acoustic noise floor, 1â€“800â€‰Hz. Journal of the Acoustical Society of America, 2018, 143, 1223-1233.	0.5	10
49	Low-frequency pulse propagation over 510â€‰km in the Philippine Sea: A comparison of observed and theoretical pulse spreading. Journal of the Acoustical Society of America, 2016, 140, 216-228.	0.5	9
50	Resolution, identification, and stability of broadband acoustic arrivals in Fram Strait. Journal of the Acoustical Society of America, 2017, 141, 2055-2068.	0.5	9
51	State Estimates and Forecasts of the Northern Philippine Sea Circulation including Ocean Acoustic Travel Times. Journal of Atmospheric and Oceanic Technology, 2021, 38, 1913-1933.	0.5	9
52	Integrated autocorrelation phase at one period lag. Journal of the Acoustical Society of America, 1994, 96, 2353-2356.	0.5	8
53	Deep seafloor arrivals in long range ocean acoustic propagation. Journal of the Acoustical Society of America, 2013, 134, 3307-3317.	0.5	8
54	Bottom interacting sound at 50â€‰km range in a deep ocean environment. Journal of the Acoustical Society of America, 2012, 132, 2224-2231.	0.5	7

#	Article	IF	Citations
55	Estimating the horizontal and vertical direction-of-arrival of water-borne seismic signals in the northern Philippine Sea. Journal of the Acoustical Society of America, 2013, 134, 3282-3298.	0.5	7
56	Weakly dispersive modal pulse propagation in the North Pacific Ocean. Journal of the Acoustical Society of America, 2013, 134, 3386-3394.	0.5	7
57	High-efficient tunable sound sources for ocean and bottom tomography, 15 years of operating history. , 2016, , .		7
58	Three-dimensional bottom diffraction in the North Pacific. Journal of the Acoustical Society of America, 2019, 146, 1913-1922.	0.5	7
59	A performance comparison between m-sequences and linear frequency-modulated sweeps for the estimation of travel-time with a moving source. Journal of the Acoustical Society of America, 2021, 150, 2613-2623.	0.5	7
60	Differential Doppler as a Diagnostic. Journal of the Acoustical Society of America, 1994, 96, 2414-2424.	0.5	6
61	Preliminary results for glider localization in the Beaufort Duct using broadband acoustic sources at long range. , 2019, , .		6
62	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
63	Experimental validation of a random matrix theory model for dominant mode rejection beamformer notch depth. , 2012, , .		5
64	Long-range asymptotic behavior of vertical travel-time sensitivity kernels. Journal of the Acoustical Society of America, 2013, 134, 3201-3210.	0.5	5
65	Wind Sea behind a Cold Front and Deep Ocean Acoustics. Journal of Physical Oceanography, 2016, 46, 1705-1716.	0.7	5
66	Observations of low-frequency, long-range acoustic propagation in the Philippine Sea and comparisons with mode transport theory. Journal of the Acoustical Society of America, 2020, 147, 877-897.	0.5	5
67	Measurements of the correlation of the frequency-difference autoproduct with acoustic and predicted-autoproduct fields in the deep ocean. Journal of the Acoustical Society of America, 2021, 149, 853-865.	0.5	5
68	Interpretation of GPS Offsets from a Steady course. Journal of Atmospheric and Oceanic Technology, 1992, 9, 862-866.	0.5	4
69	Barotropic Rossby wave radiation from a model Gulf Stream. Geophysical Research Letters, 2007, 34, .	1.5	4
70	Analysis of the vertical structure of deep ocean noise using measurements from the SPICEX and PhilSea experiments. Proceedings of Meetings on Acoustics, 2013, , .	0.3	4
71	Reduced rank models for travel time estimation of low order mode pulses. Journal of the Acoustical Society of America, 2013, 134, 3332-3346.	0.5	4
72	Internal tides and deep diel fades in acoustic intensity. Journal of the Acoustical Society of America, 2016, 140, 3952-3962.	0.5	4

#	Article	IF	Citations
73	Quantification and Modeling the Effects of Thermal Shock on Combustion Pressure Transducers. , 0, , .		3
74	State Estimates and Forecasts of the Eddy Field in the Subtropical Countercurrent in the Northern Philippine Sea. Journal of Atmospheric and Oceanic Technology, 2021, 38, 1889-1911.	0.5	3
75	Observations of thermohaline sound-speed structure induced by internal waves and spice in the summer 2015 Canada Basin marginal ice zone. Elementa, 2018, 6, .	1.1	3
76	Second-Order Sensitivity of Acoustic Travel Times to Sound Speed Perturbations. Acta Acustica United With Acustica, 2011, 97, 533-543.	0.8	2
77	The precision of travel time in ATOC experiments. Journal of the Acoustical Society of America, 1996, 100, 2581-2581.	0.5	2
78	Beaufort Sea observations of 11 to 12.5 kHz surface pulse reflections near 50 degree grazing angle from summer 2016 to summer 2017. Journal of the Acoustical Society of America, 2022, 151, 106-125.	0.5	2
79	Acoustic thermometry time series in the North Pacific. , 2003, , .		1
80	A test of deep water Rytov theory at 284â€‰Hz and 107â€‰km in the Philippine Sea. Journal of the Acoustical Society of America, 2015, 138, 2015-2023.	0.5	1
81	Deep seafloor arrivals: Scattering or multi-path from ocean thermal structure?. Journal of the Acoustical Society of America, 2009, 126, 2159.	0.5	1
82	Group delay inversion for ocean properties. , 0, , .		0
83	Turning point filters. , 0, , .		0
84	Ocean acoustic tomography using turning-point filters. , 2000, , .		0
85	A comparative study of mode arrivals at megameter ranges for 28 Hz, 75 Hz, and 84 Hz sources. , 2003, , .		0
86	Comparison of statistics of controlled source tones and single ship noise in the deep ocean. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
87	Towards subsurface positioning of gliders using fixed acoustic tomography sources. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
88	The effects of internal tides on acoustic phase and amplitude statistics in the Philippine Sea. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
89	Ray/mode duality and turning point filters. Journal of the Acoustical Society of America, 1997, 102, 3081-3081.	0.5	0
90	A dataset consisting of a two-year long temperature and sound speed time series from acoustic tomography in Fram Strait. Data in Brief, 2022, 42, 108118.	0.5	0