

# Matthew A Dzieciuch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1402028/publications.pdf>

Version: 2024-02-01

90  
papers

2,371  
citations

279487

23  
h-index

233125

45  
g-index

143  
all docs

143  
docs citations

143  
times ranked

1450  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beaufort Sea observations of 11 to 12.5 kHz surface pulse reflections near 50 degree grazing angle from summer 2016 to summer 2017. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 106-125.	0.5	2
2	A dataset consisting of a two-year long temperature and sound speed time series from acoustic tomography in Fram Strait. <i>Data in Brief</i> , 2022, 42, 108118.	0.5	0
3	Measurements of the correlation of the frequency-difference autoprodut with acoustic and predicted-autoprodut fields in the deep ocean. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 853-865.	0.5	5
4	Observations of sound-speed fluctuations in the Beaufort Sea from summer 2016 to summer 2017. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 1536-1548.	0.5	12
5	State Estimates and Forecasts of the Eddy Field in the Subtropical Countercurrent in the Northern Philippine Sea. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 1889-1911.	0.5	3
6	State Estimates and Forecasts of the Northern Philippine Sea Circulation including Ocean Acoustic Travel Times. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 1913-1933.	0.5	9
7	A performance comparison between m-sequences and linear frequency-modulated sweeps for the estimation of travel-time with a moving source. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 2613-2623.	0.5	7
8	Temporal and spatial dependence of a yearlong record of sound propagation from the Canada Basin to the Chukchi Shelf. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 1663-1680.	0.5	22
9	Deep ocean long range underwater navigation. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 2365-2382.	0.5	18
10	Observations of low-frequency, long-range acoustic propagation in the Philippine Sea and comparisons with mode transport theory. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 877-897.	0.5	5
11	A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	14
12	Observations of phase and intensity fluctuations for low-frequency, long-range transmissions in the Philippine Sea and comparisons to path-integral theory. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 567-585.	0.5	13
13	Three-dimensional bottom diffraction in the North Pacific. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 1913-1922.	0.5	7
14	Preliminary results for glider localization in the Beaufort Duct using broadband acoustic sources at long range. , 2019, , .		6
15	Deep water acoustic range estimation based on an ocean general circulation model: Application to PhilSea10 data. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 4754-4773.	0.5	12
16	A deep ocean acoustic noise floor, $\sim 800$ dB re 1 $\mu$ Pa. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 1223-1233.	0.5	10
17	Observations of thermohaline sound-speed structure induced by internal waves and spice in the summer 2015 Canada Basin marginal ice zone. <i>Elementa</i> , 2018, 6, .	1.1	3
18	Vertical line array measurements of ambient noise in the North Pacific. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 1571-1581.	0.5	26

#	ARTICLE	IF	CITATIONS
19	Resolution, identification, and stability of broadband acoustic arrivals in Fram Strait. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 2055-2068.	0.5	9
20	Eastern Arctic ambient noise on a drifting vertical array. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 1997-2006.	0.5	22
21	Time series of temperature in Fram Strait determined from the 2008–2009 DAMOCLES acoustic tomography measurements and an ocean model. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4601-4617.	1.0	18
22	Wind Sea behind a Cold Front and Deep Ocean Acoustics. <i>Journal of Physical Oceanography</i> , 2016, 46, 1705-1716.	0.7	5
23	Internal tides and deep diel fades in acoustic intensity. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 3952-3962.	0.5	4
24	Low-frequency pulse propagation over 510 km in the Philippine Sea: A comparison of observed and theoretical pulse spreading. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 216-228.	0.5	9
25	High-efficient tunable sound sources for ocean and bottom tomography, 15 years of operating history. , 2016, , .		7
26	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
27	A test of deep water Rytov theory at 284 Hz and 107 km in the Philippine Sea. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 2015-2023.	0.5	1
28	Signal processing and tracking of arrivals in ocean acoustic tomography. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 2512-2522.	0.5	22
29	Analysis of the vertical structure of deep ocean noise using measurements from the SPICEX and PhilSea experiments. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	4
30	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
31	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
32	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
33	Observations of sound-speed fluctuations in the western Philippine Sea in the spring of 2009. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3185-3200.	0.5	25
34	Estimating the horizontal and vertical direction-of-arrival of water-borne seismic signals in the northern Philippine Sea. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3282-3298.	0.5	7
35	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
36	Long-range asymptotic behavior of vertical travel-time sensitivity kernels. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3201-3210.	0.5	5

#	ARTICLE	IF	CITATIONS
37	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
38	Weakly dispersive modal pulse propagation in the North Pacific Ocean. Journal of the Acoustical Society of America, 2013, 134, 3386-3394.	0.5	7
39	Structure and stability of wave-theoretic kernels in the ocean. Journal of the Acoustical Society of America, 2013, 134, 3318-3331.	0.5	10
40	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
41	Comparison of statistics of controlled source tones and single ship noise in the deep ocean. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
42	On the time-averaged 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
43	Towards subsurface positioning of gliders using fixed acoustic tomography sources. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
44	The effects of internal tides on acoustic phase and amplitude statistics in the Philippine Sea. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
45	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
46	Experimental validation of a random matrix theory model for dominant mode rejection beamformer notch depth. , 2012, , .		5
47	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
48	On the predictability of mode-1 internal tides. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 677-698.	0.6	45
49	Second-Order Sensitivity of Acoustic Travel Times to Sound Speed Perturbations. Acta Acustica United With Acustica, 2011, 97, 533-543.	0.8	2
50	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
51	Feasibility of global-scale synthetic aperture communications. Journal of the Acoustical Society of America, 2009, 125, 8-10.	0.5	65
52	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
53	Travel-time sensitivity kernels in long-range propagation. Journal of the Acoustical Society of America, 2009, 126, 2223-2233.	0.5	13
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	A decade of acoustic thermometry in the North Pacific Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	52
57	LOAPEX: The Long-Range Ocean Acoustic Propagation EXperiment. IEEE Journal of Oceanic Engineering, 2009, 34, 1-11.	2.1	45
58	Deep seafloor arrivals: Scattering or multi-path from ocean thermal structure?. Journal of the Acoustical Society of America, 2009, 126, 2159.	0.5	1
59	Ocean acoustic tomography. Journal of Physics: Conference Series, 2008, 118, 012002.	0.3	23
60	Barotropic Rossby wave radiation from a model Gulf Stream. Geophysical Research Letters, 2007, 34, .	1.5	4
61	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
62	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
63	Transverse horizontal spatial coherence of deep arrivals at megameter ranges. Journal of the Acoustical Society of America, 2005, 117, 1511-1526.	0.5	12
64	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
65	Mode coherence at megameter ranges in the North Pacific Ocean. Journal of the Acoustical Society of America, 2005, 117, 1565-1581.	0.5	39
66	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
67	Propagation of sound through a spicy ocean, the SOFAR overture. Journal of the Acoustical Society of America, 2004, 116, 1447-1462.	0.5	25
68	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
69	Resolving quadrature fringes in real time. Applied Optics, 2004, 43, 771.	2.1	47
70	A comparative study of mode arrivals at megameter ranges for 28 Hz, 75 Hz, and 84 Hz sources. , 2003, , .		0
71	Acoustic thermometry time series in the North Pacific. , 2003, , .		1
72	Millennial Climate Variability: Is There a Tidal Connection?. Journal of Climate, 2002, 15, 370-385.	1.2	59

#	ARTICLE	IF	CITATIONS
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	Turning point filters: Analysis of sound propagation on a gyre-scale. <i>Journal of the Acoustical Society of America</i> , 2001, 110, 135-149.	0.5	38
75	Further analysis of intensity fluctuations from a 3252-km acoustic propagation experiment in the eastern North Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 2001, 110, 163-169.	0.5	29
76	Ocean acoustic tomography using turning-point filters. , 2000, , .		0
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	Multimegahertz-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
80	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
81	Ocean Climate Change: Comparison of Acoustic Tomography, Satellite Altimetry, and Modeling. , 1998, 281, 1327-1332.		63
82	Ray/mode duality and turning point filters. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 3081-3081.	0.5	0
83	The precision of travel time in ATOC experiments. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 2581-2581.	0.5	2
84	Integrated autocorrelation phase at one period lag. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 2353-2356.	0.5	8
85	Signals, signal processing, and general results. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 2343-2352.	0.5	18
86	Differential Doppler as a Diagnostic. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 2414-2424.	0.5	6
87	Interpretation of GPS Offsets from a Steady course. <i>Journal of Atmospheric and Oceanic Technology</i> , 1992, 9, 862-866.	0.5	4
88	Group delay inversion for ocean properties. , 0, , .		0
89	Turning point filters. , 0, , .		0
90	Quantification and Modeling the Effects of Thermal Shock on Combustion Pressure Transducers. , 0, , .		3