

# Peter Gerstoft

## List of Publications by Year in descending order

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288  
papers

10,569  
citations

30070

54  
h-index

42399

92  
g-index

301  
all docs

301  
docs citations

301  
times ranked

4242  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface wave tomography from microseisms in Southern California. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	497
2	Extracting time-domain Green's function estimates from ambient seismic noise. Geophysical Research Letters, 2005, 32, .	4.0	420
3	Seismic interferometryâ€”turning noise into signal. The Leading Edge, 2006, 25, 1082-1092.	0.7	346
4	Inversion of seismoacoustic data using genetic algorithms and a posteriori probability distributions. Journal of the Acoustical Society of America, 1994, 95, 770-782.	1.1	333
5	Machine learning in acoustics: Theory and applications. Journal of the Acoustical Society of America, 2019, 146, 3590-3628.	1.1	306
6	Machine Learning in Seismology: Turning Data into Insights. Seismological Research Letters, 2019, 90, 3-14.	1.9	302
7	P-waves from cross-correlation of seismic noise. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	262
8	Compressive beamforming. Journal of the Acoustical Society of America, 2014, 136, 260-271.	1.1	255
9	Multiple and single snapshot compressive beamforming. Journal of the Acoustical Society of America, 2015, 138, 2003-2014.	1.1	179
10	Multisnapshot Sparse Bayesian Learning for DOA. IEEE Signal Processing Letters, 2016, 23, 1469-1473.	3.6	179
11	Source localization in an ocean waveguide using supervised machine learning. Journal of the Acoustical Society of America, 2017, 142, 1176-1188.	1.1	162
12	Ocean acoustic inversion with estimation of a posteriori probability distributions. Journal of the Acoustical Society of America, 1998, 104, 808-819.	1.1	160
13	Inversion for refractivity parameters from radar sea clutter. Radio Science, 2003, 38, n/a-n/a.	1.6	141
14	Global P, PP, and PKP wave microseisms observed from distant storms. Geophysical Research Letters, 2008, 35, .	4.0	138
15	A year of microseisms in southern California. Geophysical Research Letters, 2007, 34, .	4.0	133
16	Greenâ€™s functions extraction and surface-wave tomography from microseisms in southern California. Geophysics, 2006, 71, S123-S131.	2.6	120
17	Compressive sensing of the Tohoku-Oki Mw 9.0 earthquake: Frequency-dependent rupture modes. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	120
18	When Katrina hit California. Geophysical Research Letters, 2006, 33, .	4.0	117

#	ARTICLE	IF	CITATIONS
19	Ship localization in Santa Barbara Channel using machine learning classifiers. Journal of the Acoustical Society of America, 2017, 142, EL455-EL460.	1.1	113
20	Grid-free compressive beamforming. Journal of the Acoustical Society of America, 2015, 137, 1923-1935.	1.1	109
21	Inversion for geometric and geoacoustic parameters in shallow water: Experimental results. Journal of the Acoustical Society of America, 1995, 97, 3589-3598.	1.1	108
22	The Cascadia Initiative: A Sea Change In Seismological Studies of Subduction Zones. Oceanography, 2014, 27, 138-150.	1.0	106
23	Inversion of broad-band multitone acoustic data from the YELLOW SHARK summer experiments. IEEE Journal of Oceanic Engineering, 1996, 21, 324-346.	3.8	102
24	The seismic traffic footprint: Tracking trains, aircraft, and cars seismically. Geophysical Research Letters, 2015, 42, 2674-2681.	4.0	96
25	A sparse equivalent source method for near-field acoustic holography. Journal of the Acoustical Society of America, 2017, 141, 532-542.	1.1	96
26	Refractivity estimation from sea clutter: An invited review. Radio Science, 2011, 46, .	1.6	93
27	Deep-learning source localization using multi-frequency magnitude-only data. Journal of the Acoustical Society of America, 2019, 146, 211-222.	1.1	92
28	Distribution of noise sources for seismic interferometry. Geophysical Journal International, 2010, 183, 1470-1484.	2.4	91
29	Multi-frequency sparse Bayesian learning for robust matched field processing. Journal of the Acoustical Society of America, 2017, 141, 3411-3420.	1.1	91
30	A feedforward neural network for direction-of-arrival estimation. Journal of the Acoustical Society of America, 2020, 147, 2035-2048.	1.1	90
31	Inversion of acoustic data using a combination of genetic algorithms and the Gauss-Newton approach. Journal of the Acoustical Society of America, 1995, 97, 2181-2190.	1.1	89
32	An Overview of Sequential Bayesian Filtering in Ocean Acoustics. IEEE Journal of Oceanic Engineering, 2011, 36, 71-89.	3.8	87
33	Tracking Refractivity from Clutter Using Kalman and Particle Filters. IEEE Transactions on Antennas and Propagation, 2008, 56, 1058-1070.	5.1	85
34	Estimation of Radio Refractivity From Radar Clutter Using Bayesian Monte Carlo Analysis. IEEE Transactions on Antennas and Propagation, 2006, 54, 1318-1327.	5.1	81
35	Broadband synthetic aperture geoacoustic inversion. Journal of the Acoustical Society of America, 2013, 134, 312-322.	1.1	80
36	Parameter estimation using multifrequency range-dependent acoustic data in shallow water. Journal of the Acoustical Society of America, 1996, 99, 2839-2850.	1.1	79

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37	Pelagic and coastal sources of <i>P</i>-wave microseisms: Generation under tropical cyclones. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	79
38	The Crust and Upper Mantle Structure of Central and West Antarctica From Bayesian Inversion of Rayleigh Wave and Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7824-7849.	3.4	78
39	Range-dependent seabed characterization by inversion of acoustic data from a towed receiver array. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 1523-1535.	1.1	76
40	Introduction to compressive sensing in acoustics. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3731-3736.	1.1	72
41	Adaptive passive fathometer processing. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2193-2200.	1.1	71
42	Compressive sensing of frequency-dependent seismic radiation from subduction zone megathrust ruptures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4512-4517.	7.1	71
43	Are deep-ocean-generated surface-wave microseisms observed on land?. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3610-3629.	3.4	71
44	Phase velocities from seismic noise using beamforming and cross correlation in Costa Rica and Nicaragua. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	69
45	Adaptive and compressive matched field processing. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 92-103.	1.1	69
46	Geoacoustic and source tracking using particle filtering: Experimental results. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 75-87.	1.1	65
47	Gridless DOA Estimation and Root-MUSIC for Non-Uniform Linear Arrays. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 2144-2157.	5.3	65
48	Microseisms and hum from ocean surface gravity waves. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	62
49	Robust Ocean Acoustic Localization With Sparse Bayesian Learning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019, 13, 49-60.	10.8	61
50	Null broadening with snapshot-deficient covariance matrices in passive sonar. <i>IEEE Journal of Oceanic Engineering</i> , 2003, 28, 250-261.	3.8	60
51	Bayesian model selection applied to self-noise geoacoustic inversion. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 2043-2056.	1.1	58
52	Passive fathometer processing. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1297-1305.	1.1	57
53	OBJECTIVE FUNCTIONS FOR OCEAN ACOUSTIC INVERSION DERIVED BY LIKELIHOOD METHODS. <i>Journal of Computational Acoustics</i> , 2000, 08, 259-270.	1.0	56
54	Effect of ocean sound speed uncertainty on matched-field geoacoustic inversion. <i>Journal of the Acoustical Society of America</i> , 2008, 123, EL162-EL168.	1.1	55

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55	A duct mapping method using least squares support vector machines. <i>Radio Science</i> , 2008, 43, .	1.6	54
56	Recursive Bayesian electromagnetic refractivity estimation from radar sea clutter. <i>Radio Science</i> , 2007, 42, n/a-n/a.	1.6	53
57	Tracking of geoacoustic parameters using Kalman and particle filters. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 746-760.	1.1	53
58	Ross ice shelf vibrations. <i>Geophysical Research Letters</i> , 2015, 42, 7589-7597.	4.0	52
59	Sparse Bayesian learning for beamforming using sparse linear arrays. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2719-2729.	1.1	52
60	Subevent location and rupture imaging using iterative backprojection for the 2011 Tohoku Mw 9.0 earthquake. <i>Geophysical Journal International</i> , 2012, 190, 1152-1168.	2.4	51
61	Sensitivity analysis and performance estimation of refractivity from clutter techniques. <i>Radio Science</i> , 2009, 44, .	1.6	50
62	Uncertainty analysis in matched-field geoacoustic inversions. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 197-207.	1.1	49
63	High-frequency P-wave seismic noise driven by ocean winds. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	48
64	Sparse Bayesian learning with multiple dictionaries. <i>Signal Processing</i> , 2019, 159, 159-170.	3.7	48
65	Geoacoustic inversion of tow-ship noise via near-field-matched-field processing. <i>IEEE Journal of Oceanic Engineering</i> , 2003, 28, 454-467.	3.8	46
66	Deep transfer learning for source ranging: Deep-sea experiment results. <i>Journal of the Acoustical Society of America</i> , 2019, 146, EL317-EL322.	1.1	46
67	Statistical maritime radar duct estimation using hybrid genetic algorithm-Markov chain Monte Carlo method. <i>Radio Science</i> , 2007, 42, n/a-n/a.	1.6	45
68	A boundary element approach to ocean seismoacoustic facet reverberation. <i>Journal of the Acoustical Society of America</i> , 1991, 89, 1629-1642.	1.1	44
69	Green's function approximation from cross-correlations of 20-100Hz noise during a tropical storm. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 723-734.	1.1	44
70	Fundamental and higher-mode Rayleigh wave characteristics of ambient seismic noise in New Zealand. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	44
71	Estimation of radio refractivity structure using matched-field array processing. <i>IEEE Transactions on Antennas and Propagation</i> , 2000, 48, 345-356.	5.1	43
72	Refractivity estimation using multiple elevation angles. <i>IEEE Journal of Oceanic Engineering</i> , 2003, 28, 513-525.	3.8	42

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73	Coherent Multipath Direction-of-Arrival Resolution Using Compressed Sensing. IEEE Journal of Oceanic Engineering, 2017, 42, 494-505.	3.8	42
74	Electromagnetic matched-field processing: basic concepts and tropospheric simulations. IEEE Transactions on Antennas and Propagation, 1997, 45, 1536-1545.	5.1	41
75	Ice shelf structure derived from dispersion curve analysis of ambient seismic noise, Ross Ice Shelf, Antarctica. Geophysical Journal International, 2016, 205, 785-795.	2.4	40
76	Advanced Noninvasive Geophysical Monitoring Techniques. Annual Review of Earth and Planetary Sciences, 2007, 35, 653-683.	11.0	39
77	Resolving P-wave travel-time anomalies using seismic array observations of oceanic storms. Earth and Planetary Science Letters, 2010, 292, 419-427.	4.4	39
78	Sequential Bayesian Sparse Signal Reconstruction Using Array Data. IEEE Transactions on Signal Processing, 2013, 61, 6344-6354.	5.3	39
79	Sound source ranging using a feed-forward neural network trained with fitting-based early stopping. Journal of the Acoustical Society of America, 2019, 146, EL258-EL264.	1.1	39
80	Three-dimensional source localization using sparse Bayesian learning on a spherical microphone array. Journal of the Acoustical Society of America, 2020, 147, 3895-3904.	1.1	39
81	Dominant source regions of the Earth's "hum" are coastal. Geophysical Research Letters, 2009, 36, .	4.0	38
82	Compressive geoacoustic inversion using ambient noise. Journal of the Acoustical Society of America, 2014, 135, 1245-1255.	1.1	37
83	Dictionary learning of sound speed profiles. Journal of the Acoustical Society of America, 2017, 141, 1749-1758.	1.1	37
84	Deep transfer learning for underwater direction of arrival using one vector sensor. Journal of the Acoustical Society of America, 2021, 149, 1699-1711.	1.1	37
85	Multiple Grazing Angle Sea Clutter Modeling. IEEE Transactions on Antennas and Propagation, 2012, 60, 4408-4417.	5.1	36
86	A unified theory of microseisms and hum. Journal of Geophysical Research: Solid Earth, 2014, 119, 3317-3339.	3.4	36
87	Travel Time Tomography With Adaptive Dictionaries. IEEE Transactions on Computational Imaging, 2018, 4, 499-511.	4.4	36
88	Tsunami and infragravity waves impacting antarctic ice shelves. Journal of Geophysical Research: Oceans, 2017, 122, 5786-5801.	2.6	35
89	Gaussian processes for sound field reconstruction. Journal of the Acoustical Society of America, 2021, 149, 1107-1119.	1.1	35
90	Short range travel time geoacoustic inversion with vertical line array. Journal of the Acoustical Society of America, 2008, 124, EL135-EL140.	1.1	33

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91	Broadband Geoacoustic Inversion from Sparse Data Using Genetic Algorithms. Journal of Computational Acoustics, 1998, 06, 117-134.	1.0	31
92	Estimating refractivity from propagation loss in turbulent media. Radio Science, 2016, 51, 1876-1894.	1.6	31
93	Adaptive beamforming of a towed array during a turn. IEEE Journal of Oceanic Engineering, 2003, 28, 44-54.	3.8	30
94	Ocean acoustic interferometry. Journal of the Acoustical Society of America, 2007, 121, 3377.	1.1	30
95	Block sparse Bayesian learning for broadband mode extraction in shallow water from a vertical array. Journal of the Acoustical Society of America, 2020, 147, 3729-3739.	1.1	30
96	Real time refractivity from clutter using a best fit approach improved with physical information. Radio Science, 2010, 45, n/a-n/a.	1.6	29
97	Tidal and Thermal Stresses Drive Seismicity Along a Major Ross Ice Shelf Rift. Geophysical Research Letters, 2019, 46, 6644-6652.	4.0	29
98	Probability distribution of low-altitude propagation loss from radar sea clutter data. Radio Science, 2004, 39, n/a-n/a.	1.6	28
99	Block-sparse beamforming for spatially extended sources in a Bayesian formulation. Journal of the Acoustical Society of America, 2016, 140, 1828-1838.	1.1	28
100	High-resolution seismic tomography of Long Beach, CA using machine learning. Scientific Reports, 2019, 9, 14987.	3.3	27
101	DOA Estimation in heteroscedastic noise. Signal Processing, 2019, 161, 63-73.	3.7	27
102	Reinforcement learning applied to metamaterial design. Journal of the Acoustical Society of America, 2021, 150, 321-338.	1.1	27
103	A Portable Matched-Field Processing System Using Passive Acoustic Time Synchronization. IEEE Journal of Oceanic Engineering, 2006, 31, 696-710.	3.8	26
104	Compressive acoustic sound speed profile estimation. Journal of the Acoustical Society of America, 2016, 139, EL90-EL94.	1.1	25
105	Ross Ice Shelf Icequakes Associated With Ocean Gravity Wave Activity. Geophysical Research Letters, 2019, 46, 8893-8902.	4.0	25
106	Grid-less variational Bayesian line spectral estimation with multiple measurement vectors. Signal Processing, 2019, 161, 155-164.	3.7	25
107	GLOBAL INVERSION BY GENETIC ALGORITHMS FOR BOTH SOURCE POSITION AND ENVIRONMENTAL PARAMETERS. Journal of Computational Acoustics, 1994, 02, 251-266.	1.0	24
108	Validation of statistical estimation of transmission loss in the presence of geoacoustic inversion uncertainty. Journal of the Acoustical Society of America, 2006, 120, 1932-1941.	1.1	24

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109	Cascadia tremor spectra: Low corner frequencies and earthquake-like high-frequency falloff. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	24
110	Matched-field geoacoustic inversion based on radial basis function neural network. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 3279-3290.	1.1	24
111	Matched field source localization with Gaussian processes. <i>JASA Express Letters</i> , 2021, 1, .	1.1	24
112	Eigenvalues of the sample covariance matrix for a towed array. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 2388-2396.	1.1	23
113	Heterogeneous upper mantle structure beneath the Ross Sea Embayment and Marie Byrd Land, West Antarctica, revealed by P-wave tomography. <i>Earth and Planetary Science Letters</i> , 2019, 513, 40-50.	4.4	23
114	Joint towed array shape and direction of arrivals estimation using sparse Bayesian learning during maneuvering. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 1738-1751.	1.1	23
115	Sequential sparse Bayesian learning for time-varying direction of arrival. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2089-2099.	1.1	23
116	Extracting coherent coda arrivals from cross-correlations of long period seismic waves during the Mount St. Helens 2004 eruption. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	22
117	Sequential geoacoustic inversion at the continental shelfbreak. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 1722-1732.	1.1	22
118	Eastern Arctic ambient noise on a drifting vertical array. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 1997-2006.	1.1	22
119	Source depth estimation using spectral transformations and convolutional neural network in a deep-sea environment. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 3633-3644.	1.1	22
120	Block-sparse two-dimensional off-grid beamforming with arbitrary planar array geometry. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 2184-2191.	1.1	22
121	Semi-Supervised Source Localization in Reverberant Environments With Deep Generative Modeling. <i>IEEE Access</i> , 2021, 9, 84956-84970.	4.2	22
122	Geoacoustic inversion in time domain using ship of opportunity noise recorded on a horizontal towed array. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 1933-1941.	1.1	21
123	Estimation of Geoacoustic Properties of Marine Sediment Using a Hybrid Differential Evolution Inversion Method. <i>IEEE Journal of Oceanic Engineering</i> , 2010, 35, 59-69.	3.8	21
124	Ocean bottom profiling with ambient noise: A model for the passive fathometer. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 1825-1836.	1.1	21
125	Near-Surface Environmentally Forced Changes in the Ross Ice Shelf Observed With Ambient Seismic Noise. <i>Geophysical Research Letters</i> , 2018, 45, 11,187.	4.0	21
126	Asymptotic Eigenvalue Density of Noise Covariance Matrices. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 3415-3424.	5.3	20



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127	“Weather bomb”-induced seismic signals. <i>Science</i> , 2016, 353, 869-870.	12.6	20
128	Grid-free compressive mode extraction. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 1427-1442.	1.1	20
129	A new tubing system for the measurement of fluctuating pressures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1987, 25, 335-354.	3.9	19
130	Multiple-array passive acoustic source localization in shallow water. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 1501-1513.	1.1	19
131	Using graph clustering to locate sources within a dense sensor array. <i>Signal Processing</i> , 2017, 132, 110-120.	3.7	19
132	Unsupervised Deep Clustering of Seismic Data: Monitoring the Ross Ice Shelf, Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021716.	3.4	19
133	Posterior distributions of a statistic of propagation loss inferred from radar sea clutter. <i>Radio Science</i> , 2005, 40, n/a-n/a.	1.6	18
134	Shallow-water seismoacoustic noise generated by tropical storms Ernesto and Florence. <i>Journal of the Acoustical Society of America</i> , 2008, 124, EL170-EL176.	1.1	18
135	Toward the Assimilation of the Atmospheric Surface Layer Using Numerical Weather Prediction and Radar Clutter Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2345-2355.	1.5	18
136	Kinematic earthquake rupture inversion in the frequency domain. <i>Geophysical Journal International</i> , 2014, 199, 1138-1160.	2.4	18
137	“LASSO and its dual for sparse signal estimation from array data. <i>Signal Processing</i> , 2017, 130, 204-216.	3.7	18
138	Multipath Broadband Localization, Bathymetry, and Sediment Inversion. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 92-102.	3.8	18
139	Deep embedded clustering of coral reef bioacoustics. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2587-2601.	1.1	18
140	Seasonality of P wave microseisms from NCF-based beamforming using ChinArray. <i>Geophysical Journal International</i> , 2018, 213, 1832-1848.	2.4	17
141	Deep Clustering to Identify Sources of Urban Seismic Noise in Long Beach, California. <i>Seismological Research Letters</i> , 2021, 92, 1011-1022.	1.9	17
142	Subspace Approach to Inversion by Genetic Algorithms Involving Multiple Frequencies. <i>Journal of Computational Acoustics</i> , 1998, 06, 99-115.	1.0	16
143	Hypothesis testing for geoacoustic environmental models using likelihood ratio. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 1738-1748.	1.1	16
144	Phenomenological and global optimization inversion. <i>IEEE Journal of Oceanic Engineering</i> , 2003, 28, 342-354.	3.8	16

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145	Long-range propagation of finite-amplitude acoustic waves in an ocean waveguide. Journal of the Acoustical Society of America, 2004, 116, 2004-2010.	1.1	16
146	Cross-correlations of diffuse noise in an ocean environment using eigenvalue based statistical inference. Journal of the Acoustical Society of America, 2012, 132, 3213-3224.	1.1	16
147	Semi-Supervised Source Localization with Deep Generative Modeling. , 2020, , .		16
148	Introduction to the special issue on machine learning in acoustics. Journal of the Acoustical Society of America, 2021, 150, 3204-3210.	1.1	16
149	Benchmarks for validating range-dependent seismo-acoustic propagation codes. IEEE Journal of Oceanic Engineering, 1997, 22, 226-236.	3.8	15
150	Ocean-excited plate waves in the Ross and Pine Island Glacier ice shelves. Journal of Glaciology, 2018, 64, 730-744.	2.2	15
151	Robust estimation of DOA from array data at low SNR. Signal Processing, 2020, 166, 107262.	3.7	15
152	Coherent averaging of the passive fathometer response using short correlation time. Journal of the Acoustical Society of America, 2011, 130, 3633-3641.	1.1	14
153	Analytic Sequential Weissâ€™Weinstein Bounds. IEEE Transactions on Signal Processing, 2013, 61, 5049-5062.	5.3	14
154	Swell-Triggered Seismicity at the Near-Front Damage Zone of the Ross Ice Shelf. Seismological Research Letters, 2021, 92, 2768-2792.	1.9	14
155	Conditional Wasserstein generative adversarial networks applied to acoustic metamaterial design. Journal of the Acoustical Society of America, 2021, 150, 4362-4374.	1.1	14
156	Improving beampatterns of two-dimensional random arrays using convex optimization. Journal of the Acoustical Society of America, 2011, 129, EL135-EL140.	1.1	13
157	Estimation of radio refractivity using a multiple angle clutter model. Radio Science, 2012, 47, .	1.6	13
158	On the apparent attenuation in the spatial coherence estimated from seismic arrays. Journal of Geophysical Research: Solid Earth, 2014, 119, 3115-3132.	3.4	13
159	Underwater acoustic target recognition using attention-based deep neural network. JASA Express Letters, 2021, 1, .	1.1	13
160	Performance comparison between vertical and horizontal arrays for geoacoustic inversion. IEEE Journal of Oceanic Engineering, 2003, 28, 424-431.	3.8	12
161	Statistical estimation of transmission loss from geoacoustic inversion using a towed array. Journal of the Acoustical Society of America, 2007, 122, 2571-2579.	1.1	12
162	Local-scale cross-correlation of seismic noise from the Calico fault experiment. Earthquake Science, 2014, 27, 311-318.	0.9	12

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163	Sparse Bayesian Learning for DOA Estimation Using Co-Prime and Nested Arrays. , 2018, , .		12
164	Seasonal and spatial variations in the ocean-coupled ambient wavefield of the Ross Ice Shelf. Journal of Glaciology, 2019, 65, 912-925.	2.2	12
165	A simplified method for dynamic analysis of a guyed mast. Journal of Wind Engineering and Industrial Aerodynamics, 1986, 23, 487-499.	3.9	11
166	Geoacoustic Inversion Using Backpropagation. IEEE Journal of Oceanic Engineering, 2010, 35, 722-731.	3.8	11
167	Automated two-dimensional localization of underwater acoustic transient impulses using vector sensor image processing (vector sensor localization). Journal of the Acoustical Society of America, 2021, 149, 770-787.	1.1	11
168	Time-domain geoacoustic inversion of high-frequency chirp signal from a simple towed system. IEEE Journal of Oceanic Engineering, 2003, 28, 468-478.	3.8	10
169	Particle filtering for passive fathometer tracking. Journal of the Acoustical Society of America, 2012, 131, EL74-EL80.	1.1	10
170	Deep-water subsurface imaging using OBS interferometry. Geophysics, 2013, 78, Q15-Q24.	2.6	10
171	Gridless DOA Estimation via. Alternating Projections. , 2019, , .		10
172	SSLIDE: Sound Source Localization for Indoors Based on Deep Learning. , 2021, , .		10
173	Range-dependent geoacoustic inversion: results from the inversion techniques workshop. IEEE Journal of Oceanic Engineering, 2003, 28, 414-423.	3.8	9
174	Estimation of Transmission Loss in the Presence of Geoacoustic Inversion Uncertainty. IEEE Journal of Oceanic Engineering, 2006, 31, 299-307.	3.8	9
175	Estimating site amplification factors from ambient noise. Geophysical Research Letters, 2009, 36, .	4.0	9
176	Localization of acoustic sources using a decentralized particle filter. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	9
177	Localizing scatterers from surf noise cross correlations. Journal of the Acoustical Society of America, 2017, 141, EL64-EL69.	1.1	9
178	Sparse planar arrays for azimuth and elevation using experimental data. Journal of the Acoustical Society of America, 2021, 149, 167-178.	1.1	9
179	Gridless sparse covariance-based beamforming via alternating projections including co-prime arrays. Journal of the Acoustical Society of America, 2022, 151, 3828-3837.	1.1	9
180	Statistical Estimation of Refractivity from Radar Sea Clutter. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	8

#	ARTICLE	IF	CITATIONS
181	On the effect of error correlation on matched-field geoacoustic inversion. Journal of the Acoustical Society of America, 2007, 121, EL64-EL69.	1.1	8
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