Stan E Dosso

List of Publications by Year
in descending order

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103	2,890	126907	189892
papers	citations	33 h-index	50 g-index

105	105	105	1314
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transdimensional Inversion on the New England Mud Patch Using High-Order Modes. IEEE Journal of Oceanic Engineering, 2022, 47, 607-619.	3.8	9
2	Transdimensional Geoacoustic Inversion Using Prior Information on Range-Dependent Seabed Layering. IEEE Journal of Oceanic Engineering, 2022, 47, 594-606.	3.8	5
3	Passive Acoustic Glider for Seabed Characterization at the New England Mud Patch. IEEE Journal of Oceanic Engineering, 2022, 47, 541-552.	3.8	9
4	Probabilistic Estimation of Merchant Ship Source Levels in an Uncertain Shallow-Water Environment. IEEE Journal of Oceanic Engineering, 2022, 47, 647-656.	3.8	4
5	Hamilton's geoacoustic model. Journal of the Acoustical Society of America, 2022, 151, R1-R2.	1.1	3
6	Seismic anisotropy evidence for modified lithosphere below the Bohai Sea region, eastern North China Craton. Tectonophysics, 2022, 823, 229192.	2.2	5
7	A review of inverse methods in seismic site characterization. Journal of Seismology, 2022, 26, 781-821.	1.3	6
8	Controls on the evolution of Cenozoic seawater chemistry. Geochimica Et Cosmochimica Acta, 2022, 329, 22-37.	3.9	2
9	Hybrid Seabed Parameterization to Investigate Geoacoustic Gradients at the New England Mud Patch. IEEE Journal of Oceanic Engineering, 2022, 47, 620-634.	3.8	6
10	The Crustal Stress Field Inferred From Focal Mechanisms in Northern Chile. Geophysical Research Letters, 2021, 48, e2021GL092889.	4.0	7
11	On compressional wave attenuation in muddy marine sediments. Journal of the Acoustical Society of America, 2021, 149, 3674-3687.	1.1	4
12	Linearized Bayesian Inversion for Experiment Geometry at the New England Mud Patch. IEEE Journal of Oceanic Engineering, 2020, 45, 60-68.	3.8	7
13	Depth-Dependent Geoacoustic Inferences With Dispersion at the New England Mud Patch via Reflection Coefficient Inversion. IEEE Journal of Oceanic Engineering, 2020, 45, 69-91.	3.8	47
14	Trans-Dimensional Inversion of Modal Dispersion Data on the New England Mud Patch. IEEE Journal of Oceanic Engineering, 2020, 45, 116-130.	3.8	40
15	Ship-of-Opportunity Noise Inversions for Geoacoustic Profiles of a Layered Mud-Sand Seabed. IEEE Journal of Oceanic Engineering, 2020, 45, 189-200.	3.8	23
16	Acoustic measurements of marine sediments with pebbles and cobbles. Near Surface Geophysics, 2020, 18, 5-22.	1.2	1
17	Ship source level estimation and uncertainty quantification in shallow water via Bayesian marginalization. Journal of the Acoustical Society of America, 2020, 147, EL339-EL344.	1.1	7
18	Nonlinear Bayesian inversion for estimating water pipeline dimensional and material parameters using acoustic wave dispersion. Journal of Sound and Vibration, 2019, 453, 294-313.	3.9	6

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19	Geoacoustic inversion of the acoustic-pressure vertical phase gradient from a single vector sensor. Journal of the Acoustical Society of America, 2019, 146, 3159-3173.	1.1	12
20	Efficient hierarchical trans-dimensional Bayesian inversion of magnetotelluric data. Geophysical Journal International, 2018, 213, 1751-1767.	2.4	51
21	Probabilistic seismic-hazard site assessment in Kitimat, British Columbia, from Bayesian inversion of surface-wave dispersion. Canadian Geotechnical Journal, 2018, 55, 928-940.	2.8	4
22	Ambient Noise Tomography of the Shandong Province and its Implication for Cenozoic Intraplate Volcanism in Eastern China. Geochemistry, Geophysics, Geosystems, 2018, 19, 3286-3301.	2.5	10
23	Geoacoustic inversion on the New England Mud Patch using warping and dispersion curves of high-order modes. Journal of the Acoustical Society of America, 2018, 143, EL405-EL411.	1.1	41
24	Geodetically Inferred Locking State of the Cascadia Megathrust Based on a Viscoelastic Earth Model. Journal of Geophysical Research: Solid Earth, 2018, 123, 8056-8072.	3.4	61
25	Upper crustal investigation of the Gulf of Saint Lawrence region, eastern Canada using ambient noise tomography. Journal of Geophysical Research: Solid Earth, 2017, 122, 5208-5227.	3.4	8
26	Subtidal circulation in a deepâ€silled fjord: <scp>D</scp>ouglas <scp>C</scp>hannel, <scp>B</scp>ritish <scp>C</scp>olumbia. Journal of Geophysical Research: Oceans, 2017, 122, 4163-4182.	2.6	15
27	Bowhead whale localization using time-difference-of-arrival data from asynchronous recorders. Journal of the Acoustical Society of America, 2017, 141, 1921-1935.	1.1	6
28	Source Localization With Multiple Hydrophone Arrays via Matched-Field Processing. IEEE Journal of Oceanic Engineering, 2017, 42, 654-662.	3.8	17
29	A gradient-based model parametrization using Bernstein polynomials in Bayesian inversion of surface wave dispersion. Geophysical Journal International, 2017, 211, 528-540.	2.4	12
30	Joint inversion for transponder localization and sound-speed profile temporal variation in high-precision acoustic surveys. Journal of the Acoustical Society of America, 2016, 140, EL44-EL49.	1.1	8
31	Bowhead whale localization using asynchronous hydrophones in the Chukchi Sea. Journal of the Acoustical Society of America, 2016, 140, 20-34.	1.1	5
32	Geoacoustic inversion for the seabed transition layer using a Bernstein polynomial model. Journal of the Acoustical Society of America, 2016, 140, 4073-4084.	1.1	6
33	Bayesian source localization with uncertain Green's function in an uncertain shallow water ocean. Journal of the Acoustical Society of America, 2016, 139, 993-1004.	1.1	18
34	Bayesian Geoacoustic Inversion With the Image Source Method. IEEE Journal of Oceanic Engineering, 2016, 41, 1035-1044.	3.8	18
35	Bayesian source localization with uncertain Green's function. , 2015, , .		0
36	Discrimination between discrete and continuum scattering from the sub-seafloor. Journal of the Acoustical Society of America, 2015, 138, 663-673.	1.1	4

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37	Efficient localization and spectral estimation of an unknown number of ocean acoustic sources using a graphics processing unit. Journal of the Acoustical Society of America, 2015, 138, 2945-2956.	1.1	3
38	Fast computation of seabed spherical-wave reflection coefficients in geoacoustic inversion. Journal of the Acoustical Society of America, 2015, 138, 2106-2117.	1.1	7
39	Transâ€dimensional Bayesian inversion of controlledâ€source electromagnetic data in the German North Sea. Geophysical Prospecting, 2015, 63, 1314-1333.	1.9	29
40	Bayesian inversion of marine controlled source electromagnetic data offshore Vancouver Island, Canada. Geophysical Journal International, 2015, 204, 21-38.	2.4	14
41	Alteration of ocean crust provides a strong temperature dependent feedback on the geological carbon cycle and is a primary driver of the Sr-isotopic composition of seawater. Earth and Planetary Science Letters, 2015, 415, 38-46.	4.4	117
42	Bayesian environmental inversion of airgun modal dispersion using a single hydrophone in the Chukchi Sea. Journal of the Acoustical Society of America, 2015, 137, 3009-3023.	1.1	26
43	Coherence extrapolation for underwater ambient noise. Journal of the Acoustical Society of America, 2014, 135, EL318-EL323.	1.1	4
44	Three-dimensional localization of transient acoustic sources using an ice-mounted geophone. Journal of the Acoustical Society of America, 2014, 135, 124-133.	1.1	4
45	Estimating seabed scattering mechanisms via Bayesian model selection. Journal of the Acoustical Society of America, 2014, 136, 1552-1562.	1.1	14
46	Efficient trans-dimensional Bayesian inversion for geoacoustic profile estimation. Inverse Problems, 2014, 30, 114018.	2.0	82
47	Frequency- and spatial-correlated noise on layered magnetotelluric inversion. Geophysical Journal International, 2014, 199, 1205-1213.	2.4	13
48	Bayesian localization of an unknown number of ocean acoustic sources. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
49	Probabilistic two dimensional joint water-column and seabed inversion. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
50	Uncertainty of linear earthquake site amplification via Bayesian inversion of surface seismic data. Geophysics, 2013, 78, WB37-WB48.	2.6	12
51	Inversion for a moving spherical target's positional, structural, and speed parameters. Journal of the Acoustical Society of America, 2013, 134, 67-76.	1.1	0
52	Bayesian tracking of multiple acoustic sources in an uncertain ocean environment. Journal of the Acoustical Society of America, 2013, 133, EL274-EL280.	1.1	7
53	Three-dimensional multiple-source focalization in an uncertain ocean environment. Journal of the Acoustical Society of America, 2013, 134, EL426-EL431.	1.1	2
54	Bayesian geoacoustic inversion of single hydrophone light bulb data using warping dispersion analysis. Journal of the Acoustical Society of America, 2013, 134, 120-130.	1.1	79

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55	Seabed roughness parameters from joint backscatter and reflection inversion at the Malta Plateau. Journal of the Acoustical Society of America, 2013, 134, 1833-1842.	1.1	15
56	Trans-dimensional geoacoustic inversion of wind-driven ambient noise. Journal of the Acoustical Society of America, 2013, 133, EL47-EL53.	1.1	16
57	Three-dimensional localization of multiple sources in an uncertain ocean environment. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
58	Trans-dimensional joint inversion of seabed scattering and reflection data. Journal of the Acoustical Society of America, 2013, 133, 1347-1357.	1.1	39
59	Transdimensional uncertainty estimation for dispersive seabed sediments. Geophysics, 2013, 78, WB63-WB76.	2.6	25
60	Efficient Bayesian multi-source localization using a graphics processing unit. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
61	Bayesian Inversion of Multimode Interface-Wave Dispersion From Ambient Noise. IEEE Journal of Oceanic Engineering, 2012, 37, 407-416.	3.8	5
62	An internally consistent, probabilistic, determination of ridge-axis hydrothermal fluxes from basalt-hosted systems. Earth and Planetary Science Letters, 2012, 323-324, 92-101.	4.4	42
63	Maximum-likelihood and other processors for incoherent and coherent matched-field localization. Journal of the Acoustical Society of America, 2012, 132, 2273-2285.	1.1	34
64	Trans-dimensional matched-field geoacoustic inversion with hierarchical error models and interacting Markov chains. Journal of the Acoustical Society of America, 2012, 132, 2239-2250.	1.1	95
65	Parallel tempering for strongly nonlinear geoacoustic inversion. Journal of the Acoustical Society of America, 2012, 132, 3030-3040.	1.1	83
66	Bayesian geoacoustic inversion using wind-driven ambient noise. Journal of the Acoustical Society of America, 2012, 131, 2658-2667.	1.1	38
67	Trans-dimensional inversion of microtremor array dispersion data with hierarchical autoregressive error models. Geophysical Journal International, 2012, 188, 719-734.	2.4	75
68	Bayesian matched-field geoacoustic inversion. Inverse Problems, 2011, 27, 055009.	2.0	54
69	Bayesian multiple-source localization in an uncertain ocean environment. Journal of the Acoustical Society of America, 2011, 129, 3577-3589.	1.1	35
70	Non-linearity in Bayesian 1-D magnetotelluric inversion. Geophysical Journal International, 2011, 185, 663-675.	2.4	36
71	Bayesian Inversion of Interface-Wave Dispersion for Seabed Shear-Wave Speed Profiles. IEEE Journal of Oceanic Engineering, 2011, 36, 1-11.	3.8	18
72	Trans-dimensional geoacoustic inversion. Journal of the Acoustical Society of America, 2010, 128, 3393-3405.	1.1	122

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73	Bayesian Acoustic Source Track Prediction in an Uncertain Ocean Environment. IEEE Journal of Oceanic Engineering, 2010, 35, 811-820.	3.8	3
74	Bayesian inversion of microtremor array dispersion data in southwestern British Columbia. Geophysical Journal International, 2010, 183, 923-940.	2.4	43
75	Three-dimensional source tracking in an uncertain environment via Bayesian marginalization. Journal of the Acoustical Society of America, 2010, 128, EL111.	1.1	5
76	Bayesian evidence computation for model selection in non-linear geoacoustic inference problems. Journal of the Acoustical Society of America, 2010, 128, 3406-3415.	1.1	33
77	Bayesian source tracking via focalization and marginalization in an uncertain Mediterranean Sea environment. Journal of the Acoustical Society of America, 2010, 128, 66-74.	1.1	6
78	Analyzing lateral seabed variability with Bayesian inference of seabed reflection data. Journal of the Acoustical Society of America, 2009, 126, 56-69.	1.1	20
79	Bayesian inversion of reverberation and propagation data for geoacoustic and scattering parameters. Journal of the Acoustical Society of America, 2009, 125, 2867-2880.	1.1	14
80	Three-dimensional source tracking in an uncertain environment. Journal of the Acoustical Society of America, 2009, 125, 2909.	1.1	16
81	Comparison of focalization and marginalization for Bayesian tracking in an uncertain ocean environment. Journal of the Acoustical Society of America, 2009, 125, 717-722.	1.1	26
82	Model selection and Bayesian inference for high-resolution seabed reflection inversion. Journal of the Acoustical Society of America, 2009, 125, 706-716.	1.1	65
83	Parameter Estimate Biases in Geoacoustic Inversion From Neglected Range Dependence. IEEE Journal of Oceanic Engineering, 2008, 33, 255-265.	3.8	5
84	Joint time/frequency-domain inversion of reflection data for seabed geoacoustic profiles and uncertainties. Journal of the Acoustical Society of America, 2008, 123, 1306-1317.	1.1	33
85	Bayesian geoacoustic inversion of ship noise on a horizontal array. Journal of the Acoustical Society of America, 2008, 124, 788-795.	1.1	34
86	Uncertainty estimation in simultaneous Bayesian tracking and environmental inversion. Journal of the Acoustical Society of America, 2008, 124, 82-97.	1.1	73
87	Full wave-field reflection coefficient inversion. Journal of the Acoustical Society of America, 2007, 122, 3327-3337.	1.1	44
88	Bayesian focalization: Quantifying source localization with environmental uncertainty. Journal of the Acoustical Society of America, 2007, 121, 2567-2574.	1.1	24
89	Uncertainty estimation in seismo-acoustic reflection travel time inversion. Journal of the Acoustical Society of America, 2007, 122, 161-176.	1.1	61
90	Geoacoustic Information Content of Horizontal Line Array Data. IEEE Journal of Oceanic Engineering, 2007, 32, 651-662.	3.8	4

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91	Data error covariance in matched-field geoacoustic inversion. Journal of the Acoustical Society of America, 2006, 119, 208-219.	1.1	83
92	Matched-field geoacoustic inversion with a horizontal array and low-level source. Journal of the Acoustical Society of America, 2006, 120, 221-230.	1.1	15
93	Remote sensing of sediment density and velocity gradients in the transition layer. Journal of the Acoustical Society of America, 2005, 118, 163-177.	1.1	38
94	Environmental uncertainty in ocean acoustic source localization. Inverse Problems, 2003, 19, 419-431.	2.0	22
95	Quantifying uncertainty in geoacoustic inversion. I. A fast Gibbs sampler approach. Journal of the Acoustical Society of America, 2002, 111, 129-142.	1.1	190
96	Effects of incoherent and coherent source spectral information in geoacoustic inversion. Journal of the Acoustical Society of America, 2002, 112, 1390-1398.	1.1	9
97	Quantifying uncertainty in geoacoustic inversion. II. Application to broadband, shallow-water data. Journal of the Acoustical Society of America, 2002, 111, 143-159.	1.1	103
98	Hybrid geoacoustic inversion of broadband Mediterranean Sea data. Journal of the Acoustical Society of America, 2000, 107, 1967-1977.	1.1	93
99	Geoacoustic inversion via local, global, and hybrid algorithms. Journal of the Acoustical Society of America, 1999, 105, 3219-3230.	1.1	82
100	Array element localization for horizontal arrays via Occamâ€™s inversion. Journal of the Acoustical Society of America, 1998, 104, 846-859.	1.1	64
101	Geoacoustic Inversion for the Workshop '97 Benchmark Test Cases Using Simulated Annealing. Journal of Computational Acoustics, 1998, 06, 29-43.	1.0	24
102	Matched-field localization for multiple sources in an uncertain environment, with application to Arctic ambient noise. Journal of the Acoustical Society of America, 1997, 101, 3525-3538.	1.1	16
103	Windâ€driven currents in a â€˜wideâ€™ narrow channel, with application to Douglas Channel, BC. Journal of Geophysical Research: Oceans, 0, , .	2.6	2