

Stan E Dosso

List of Publications by Year in descending order

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103
papers

2,890
citations

126907

33
h-index

189892

50
g-index

105
all docs

105
docs citations

105
times ranked

1314
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Trans-dimensional geoacoustic inversion. Journal of the Acoustical Society of America, 2010, 128, 3393-3405.	1.1	122
3	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
4	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
5	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
6	Hybrid geoacoustic inversion of broadband Mediterranean Sea data. Journal of the Acoustical Society of America, 2000, 107, 1967-1977.	1.1	93
7	Data error covariance in matched-field geoacoustic inversion. Journal of the Acoustical Society of America, 2006, 119, 208-219.	1.1	83
8	Parallel tempering for strongly nonlinear geoacoustic inversion. Journal of the Acoustical Society of America, 2012, 132, 3030-3040.	1.1	83
9	Geoacoustic inversion via local, global, and hybrid algorithms. Journal of the Acoustical Society of America, 1999, 105, 3219-3230.	1.1	82
10	Efficient trans-dimensional Bayesian inversion for geoacoustic profile estimation. Inverse Problems, 2014, 30, 114018.	2.0	82
11	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
12	Trans-dimensional inversion of microtremor array dispersion data with hierarchical autoregressive error models. Geophysical Journal International, 2012, 188, 719-734.	2.4	75
13	Uncertainty estimation in simultaneous Bayesian tracking and environmental inversion. Journal of the Acoustical Society of America, 2008, 124, 82-97.	1.1	73
14	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
15	Array element localization for horizontal arrays via Occam's inversion. Journal of the Acoustical Society of America, 1998, 104, 846-859.	1.1	64
16	Uncertainty estimation in seismo-acoustic reflection travel time inversion. Journal of the Acoustical Society of America, 2007, 122, 161-176.	1.1	61
17	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
18	Bayesian matched-field geoacoustic inversion. Inverse Problems, 2011, 27, 055009.	2.0	54

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19	Efficient hierarchical trans-dimensional Bayesian inversion of magnetotelluric data. <i>Geophysical Journal International</i> , 2018, 213, 1751-1767.	2.4	51
20	Depth-Dependent Geoacoustic Inferences With Dispersion at the New England Mud Patch via Reflection Coefficient Inversion. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 69-91.	3.8	47
21	Full wave-field reflection coefficient inversion. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3327-3337.	1.1	44
22	Bayesian inversion of microtremor array dispersion data in southwestern British Columbia. <i>Geophysical Journal International</i> , 2010, 183, 923-940.	2.4	43
23	An internally consistent, probabilistic, determination of ridge-axis hydrothermal fluxes from basalt-hosted systems. <i>Earth and Planetary Science Letters</i> , 2012, 323-324, 92-101.	4.4	42
24	Geoacoustic inversion on the New England Mud Patch using warping and dispersion curves of high-order modes. <i>Journal of the Acoustical Society of America</i> , 2018, 143, EL405-EL411.	1.1	41
25	Trans-Dimensional Inversion of Modal Dispersion Data on the New England Mud Patch. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 116-130.	3.8	40
26	Trans-dimensional joint inversion of seabed scattering and reflection data. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 1347-1357.	1.1	39
27	Remote sensing of sediment density and velocity gradients in the transition layer. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 163-177.	1.1	38
28	Bayesian geoacoustic inversion using wind-driven ambient noise. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 2658-2667.	1.1	38
29	Non-linearity in Bayesian 1-D magnetotelluric inversion. <i>Geophysical Journal International</i> , 2011, 185, 663-675.	2.4	36
30	Bayesian multiple-source localization in an uncertain ocean environment. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 3577-3589.	1.1	35
31	Bayesian geoacoustic inversion of ship noise on a horizontal array. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 788-795.	1.1	34
32	Maximum-likelihood and other processors for incoherent and coherent matched-field localization. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 2273-2285.	1.1	34
33	Joint time/frequency-domain inversion of reflection data for seabed geoacoustic profiles and uncertainties. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1306-1317.	1.1	33
34	Bayesian evidence computation for model selection in non-linear geoacoustic inference problems. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 3406-3415.	1.1	33
35	Trans-dimensional Bayesian inversion of controlled-source electromagnetic data in the German North Sea. <i>Geophysical Prospecting</i> , 2015, 63, 1314-1333.	1.9	29
36	Comparison of focalization and marginalization for Bayesian tracking in an uncertain ocean environment. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 717-722.	1.1	26

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37	Bayesian environmental inversion of airgun modal dispersion using a single hydrophone in the Chukchi Sea. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 3009-3023.	1.1	26
38	Transdimensional uncertainty estimation for dispersive seabed sediments. <i>Geophysics</i> , 2013, 78, WB63-WB76.	2.6	25
39	Geoacoustic Inversion for the Workshop '97 Benchmark Test Cases Using Simulated Annealing. <i>Journal of Computational Acoustics</i> , 1998, 06, 29-43.	1.0	24
40	Bayesian focalization: Quantifying source localization with environmental uncertainty. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 2567-2574.	1.1	24
41	Ship-of-Opportunity Noise Inversions for Geoacoustic Profiles of a Layered Mud-Sand Seabed. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 189-200.	3.8	23
42	Environmental uncertainty in ocean acoustic source localization. <i>Inverse Problems</i> , 2003, 19, 419-431.	2.0	22
43	Analyzing lateral seabed variability with Bayesian inference of seabed reflection data. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 56-69.	1.1	20
44	Bayesian Inversion of Interface-Wave Dispersion for Seabed Shear-Wave Speed Profiles. <i>IEEE Journal of Oceanic Engineering</i> , 2011, 36, 1-11.	3.8	18
45	Bayesian source localization with uncertain Green's function in an uncertain shallow water ocean. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 993-1004.	1.1	18
46	Bayesian Geoacoustic Inversion With the Image Source Method. <i>IEEE Journal of Oceanic Engineering</i> , 2016, 41, 1035-1044.	3.8	18
47	Source Localization With Multiple Hydrophone Arrays via Matched-Field Processing. <i>IEEE Journal of Oceanic Engineering</i> , 2017, 42, 654-662.	3.8	17
48	Matched-field localization for multiple sources in an uncertain environment, with application to Arctic ambient noise. <i>Journal of the Acoustical Society of America</i> , 1997, 101, 3525-3538.	1.1	16
49	Three-dimensional source tracking in an uncertain environment. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 2909.	1.1	16
50	Trans-dimensional geoacoustic inversion of wind-driven ambient noise. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL47-EL53.	1.1	16
51	Matched-field geoacoustic inversion with a horizontal array and low-level source. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 221-230.	1.1	15
52	Seabed roughness parameters from joint backscatter and reflection inversion at the Malta Plateau. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 1833-1842.	1.1	15
53	Subtidal circulation in a deep fjord: Douglas Channel, British Columbia. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4163-4182.	2.6	15
54	Bayesian inversion of reverberation and propagation data for geoacoustic and scattering parameters. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 2867-2880.	1.1	14

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55	Estimating seabed scattering mechanisms via Bayesian model selection. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 1552-1562.	1.1	14
56	Bayesian inversion of marine controlled source electromagnetic data offshore Vancouver Island, Canada. <i>Geophysical Journal International</i> , 2015, 204, 21-38.	2.4	14
57	Frequency- and spatial-correlated noise on layered magnetotelluric inversion. <i>Geophysical Journal International</i> , 2014, 199, 1205-1213.	2.4	13
58	Uncertainty of linear earthquake site amplification via Bayesian inversion of surface seismic data. <i>Geophysics</i> , 2013, 78, WB37-WB48.	2.6	12
59	A gradient-based model parametrization using Bernstein polynomials in Bayesian inversion of surface wave dispersion. <i>Geophysical Journal International</i> , 2017, 211, 528-540.	2.4	12
60	Geoacoustic inversion of the acoustic-pressure vertical phase gradient from a single vector sensor. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 3159-3173.	1.1	12
61	Ambient Noise Tomography of the Shandong Province and its Implication for Cenozoic Intraplate Volcanism in Eastern China. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3286-3301.	2.5	10
62	Effects of incoherent and coherent source spectral information in geoacoustic inversion. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 1390-1398.	1.1	9
63	Transdimensional Inversion on the New England Mud Patch Using High-Order Modes. <i>IEEE Journal of Oceanic Engineering</i> , 2022, 47, 607-619.	3.8	9
64	Passive Acoustic Glider for Seabed Characterization at the New England Mud Patch. <i>IEEE Journal of Oceanic Engineering</i> , 2022, 47, 541-552.	3.8	9
65	Joint inversion for transponder localization and sound-speed profile temporal variation in high-precision acoustic surveys. <i>Journal of the Acoustical Society of America</i> , 2016, 140, EL44-EL49.	1.1	8
66	Upper crustal investigation of the Gulf of Saint Lawrence region, eastern Canada using ambient noise tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5208-5227.	3.4	8
67	Bayesian tracking of multiple acoustic sources in an uncertain ocean environment. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL274-EL280.	1.1	7
68	Fast computation of seabed spherical-wave reflection coefficients in geoacoustic inversion. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 2106-2117.	1.1	7
69	Linearized Bayesian Inversion for Experiment Geometry at the New England Mud Patch. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 60-68.	3.8	7
70	Ship source level estimation and uncertainty quantification in shallow water via Bayesian marginalization. <i>Journal of the Acoustical Society of America</i> , 2020, 147, EL339-EL344.	1.1	7
71	The Crustal Stress Field Inferred From Focal Mechanisms in Northern Chile. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092889.	4.0	7
72	Bayesian source tracking via focalization and marginalization in an uncertain Mediterranean Sea environment. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 66-74.	1.1	6

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73	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
74	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
75	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
76	A review of inverse methods in seismic site characterization. Journal of Seismology, 2022, 26, 781-821.	1.3	6
77	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
78	Parameter Estimate Biases in Geoacoustic Inversion From Neglected Range Dependence. IEEE Journal of Oceanic Engineering, 2008, 33, 255-265.	3.8	5
79	Three-dimensional source tracking in an uncertain environment via Bayesian marginalization. Journal of the Acoustical Society of America, 2010, 128, EL111.	1.1	5
80	Bayesian Inversion of Multimode Interface-Wave Dispersion From Ambient Noise. IEEE Journal of Oceanic Engineering, 2012, 37, 407-416.	3.8	5
81	Bowhead whale localization using asynchronous hydrophones in the Chukchi Sea. Journal of the Acoustical Society of America, 2016, 140, 20-34.	1.1	5
82	Transdimensional Geoacoustic Inversion Using Prior Information on Range-Dependent Seabed Layering. IEEE Journal of Oceanic Engineering, 2022, 47, 594-606.	3.8	5
83	Seismic anisotropy evidence for modified lithosphere below the Bohai Sea region, eastern North China Craton. Tectonophysics, 2022, 823, 229192.	2.2	5
84	Geoacoustic Information Content of Horizontal Line Array Data. IEEE Journal of Oceanic Engineering, 2007, 32, 651-662.	3.8	4
85	Coherence extrapolation for underwater ambient noise. Journal of the Acoustical Society of America, 2014, 135, EL318-EL323.	1.1	4
86	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
87	Discrimination between discrete and continuum scattering from the sub-seafloor. Journal of the Acoustical Society of America, 2015, 138, 663-673.	1.1	4
88	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
89	On compressional wave attenuation in muddy marine sediments. Journal of the Acoustical Society of America, 2021, 149, 3674-3687.	1.1	4
90	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

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91	Bayesian Acoustic Source Track Prediction in an Uncertain Ocean Environment. IEEE Journal of Oceanic Engineering, 2010, 35, 811-820.	3.8	3
92	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
93	Hamilton's geoacoustic model. Journal of the Acoustical Society of America, 2022, 151, R1-R2.	1.1	3
94	Three-dimensional multiple-source focalization in an uncertain ocean environment. Journal of the Acoustical Society of America, 2013, 134, EL426-EL431.	1.1	2
95	Efficient Bayesian multi-source localization using a graphics processing unit. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
96	Controls on the evolution of Cenozoic seawater chemistry. Geochimica Et Cosmochimica Acta, 2022, 329, 22-37.	3.9	2
97	Wind-driven currents in a wide narrow channel, with application to Douglas Channel, BC. Journal of Geophysical Research: Oceans, 0, , .	2.6	2
98	Three-dimensional localization of multiple sources in an uncertain ocean environment. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
99	Acoustic measurements of marine sediments with pebbles and cobbles. Near Surface Geophysics, 2020, 18, 5-22.	1.2	1
100	Bayesian localization of an unknown number of ocean acoustic sources. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
101	Probabilistic two dimensional joint water-column and seabed inversion. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
102	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
103	Bayesian source localization with uncertain Green's function. , 2015, , .		0