

Matteo Ravasi

List of Publications by Year in descending order

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44
papers

779
citations

687363

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23
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47
all docs

47
docs citations

47
times ranked

228
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimulating relative permeability changes by low-frequency elastic waves: Theory and lab experiments. Journal of Petroleum Science and Engineering, 2022, , 110393.	4.2	0
2	Stochastic Multi-Dimensional Deconvolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	9
3	Handling gaps in acquisition geometries "Improving Marchenko-based imaging using sparsity-promoting inversion and joint inversion of time-lapse data. Geophysics, 2021, 86, S143-S154.	2.6	8
4	Closed-aperture unbounded acoustics experimentation using multidimensional deconvolution. Journal of the Acoustical Society of America, 2021, 149, 1813-1828.	1.1	7
5	Misfit functions based on differentiable dynamic time warping for waveform inversion. , 2021, , .		2
6	An open-source framework for the implementation of large-scale integral operators with flexible, modern high-performance computing solutions: Enabling 3D Marchenko imaging by least-squares inversion. Geophysics, 2021, 86, WC177-WC194.	2.6	25
7	A joint inversion-segmentation approach to assisted seismic interpretation. Geophysical Journal International, 2021, 228, 893-912.	2.4	11
8	Time-Domain Multidimensional Deconvolution: A Physically Reliable and Stable Preconditioned Implementation. Remote Sensing, 2021, 13, 3683.	4.0	11
9	Scattering-based focusing for imaging in highly complex media from band-limited, multicomponent data. Geophysics, 2021, 86, WC141-WC157.	2.6	15
10	The potential of self-supervised networks for random noise suppression in seismic data. Artificial Intelligence in Geosciences, 2021, 2, 47-59.	1.9	30
11	PyLops" A linear-operator Python library for scalable algebra and optimization. SoftwareX, 2020, 11, 100361.	2.6	54
12	Imaging strategies using focusing functions with applications to a North Sea field. Geophysical Journal International, 2018, 213, 561-573.	2.4	8
13	Using Sparsity to Improve the Accuracy of Marchenko Imaging of Single and Time-Lapse Seismic Given Imperfect Acquisition. , 2018, , .		10
14	Sparse Inversion of the Coupled Marchenko Equations for Simultaneous Source Wavelet and Focusing Functions Estimation. , 2018, , .		7
15	An overview of Marchenko-based redatuming: past, present, (and future). , 2018, , .		1
16	Subsurface-domain, interferometric objective functions for target-oriented waveform inversion. Geophysics, 2017, 82, A37-A41.	2.6	13
17	Local, reservoir-only reflection and transmission responses by target-enclosing extended imaging. , 2017, , .		2
18	Rayleigh-Marchenko redatuming for target-oriented, true-amplitude imaging. Geophysics, 2017, 82, S439-S452.	2.6	70

#	ARTICLE	IF	CITATIONS
19	Target-enclosed seismic imaging. <i>Geophysics</i> , 2017, 82, Q53-Q66.	2.6	14
20	All-in-one Marchenko Redatuming. , 2017, , .		3
21	Imaging Strategies Using Marchenko Focusing Functions. , 2017, , .		3
22	Robust Marchenko Focusing - Calibrating Surface Reflection with VSP Data. , 2017, , .		5
23	Retrieving Reservoir-only Reflection and Transmission Responses from Target-enclosing Extended Images. , 2017, , .		4
24	Production-calibrated Interpretation of 4D Seismic Effects at Grane Field. , 2017, , .		1
25	Target-oriented Marchenko imaging of a North Sea field. <i>Geophysical Journal International</i> , 2016, 205, 99-104.	2.4	97
26	Using inverse transmission matrices for Marchenko redatuming in highly complex media. , 2015, , .		16
27	Elastic extended images and velocity-sensitive objective functions using multiple reflections and transmissions. <i>Geophysical Journal International</i> , 2015, 202, 943-960.	2.4	4
28	Vector-acoustic reverse time migration of Volve ocean-bottom cable data set without up/down decomposed wavefields. <i>Geophysics</i> , 2015, 80, S137-S150.	2.6	31
29	Internal multiple prediction and removal using Marchenko autofocusing and seismic interferometry. <i>Geophysics</i> , 2015, 80, A7-A11.	2.6	69
30	Seismic interferometry by multidimensional deconvolution without wavefield separation. <i>Geophysical Journal International</i> , 2015, 202, 1-16.	2.4	15
31	Elastic P- and S-wave autofocus imaging with primaries and internal multiples. <i>Geophysics</i> , 2015, 80, S187-S202.	2.6	38
32	Marchenko Imaging of Volve Field, North Sea. , 2015, , .		10
33	Multi-dimensional Free-surface Multiple Elimination and Source Deblending of Volve OBC Data. , 2015, , .		8
34	A Practical Approach to Vector-acoustic Imaging of Primaries and Free-surface Multiples. , 2015, , .		2
35	Internal Multiple Prediction - A New Approach Based on Seismic Interferometry and Marchenko Autofocusing. , 2015, , .		0
36	Elastodynamic Green's function retrieval through single-sided Marchenko inverse scattering. <i>Physical Review E</i> , 2014, 90, 063201.	2.1	63

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37	Beyond conventional migration: non-linear elastic subsalt imaging with transmissions and two-sided illumination. <i>Geophysical Journal International</i> , 2014, 198, 1173-1185.	2.4	11
38	Elastic autofocusing via single-sided Marchenko inverse scattering. , 2014, , .		5
39	On the focusing conditions in time-reversed acoustics, seismic interferometry, and Marchenko imaging. , 2014, , .		1
40	An Interferometry-Based, Subsurface-Domain Objective Function for Targeted Waveform Inversion. , 2014, , .		5
41	Elastic Autofocusing. , 2014, , .		4
42	Nonlinear scattering based imaging in elastic media: Theory, theorems, and imaging conditions. <i>Geophysics</i> , 2013, 78, S137-S155.	2.6	29
43	Elastic imaging with exact wavefield extrapolation for application to ocean-bottom 4C seismic data. <i>Geophysics</i> , 2013, 78, S265-S284.	2.6	55
44	Cycle-skipping mitigation using misfit measurements based on differentiable dynamic time warping. <i>Geophysics</i> , 0, , 1-85.	2.6	3