Giovanni Angelo Meles

List of Publications by Year
in descending order

24	865	623734 14	677142 22
papers	citations	h-index	g-index

25	25	25	452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Vector Waveform Inversion Algorithm for Simultaneous Updating of Conductivity and Permittivity Parameters From Combination Crosshole/Borehole-to-Surface GPR Data. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3391-3407.	6.3	175
2	Target-oriented Marchenko imaging of a North Sea field. Geophysical Journal International, 2016, 205, 99-104.	2.4	97
3	Fullâ€waveform inversion of crossâ€hole groundâ€penetrating radar data to characterize a gravel aquifer close to the Thur River, Switzerland. Near Surface Geophysics, 2010, 8, 635-649.	1.2	92
4	Internal multiple prediction and removal using Marchenko autofocusing and seismic interferometry. Geophysics, 2015, 80, A7-A11.	2.6	69
5	Elastodynamic Green's function retrieval through single-sided Marchenko inverse scattering. Physical Review E, 2014, 90, 063201.	2.1	63
6	Uncertainty Loops in Travel-Time Tomography from Nonlinear Wave Physics. Physical Review Letters, 2015, 114, 148501.	7.8	56
7	Crosshole GPR full-waveform inversion of waveguides acting as preferential flow paths within aquifer systems. Geophysics, 2012, 77, H57-H62.	2.6	55
8	Taming the non-linearity problem in GPR full-waveform inversion for high contrast media. Journal of Applied Geophysics, 2012, 78, 31-43.	2.1	47
9	Reconstructing the primary reflections in seismic data by Marchenko redatuming and convolutional interferometry. Geophysics, 2016, 81, Q15-Q26.	2.6	37
10	Elastic internal multiple analysis and attenuation using Marchenko and interferometric methods. Geophysics, 2017, 82, Q1-Q12.	2.6	31
11	Relating source-receiver interferometry to an inverse-scattering series to derive a new method to estimate internal multiples. Geophysics, 2016, 81, Q27-Q40.	2.6	25
12	Diffracted and pseudo-physical waves from spatially limited arrays using sourceâ€“receiver interferometry (SRI). Geophysical Journal International, 2014, 196, 1043-1059.	2.4	20
13	Marchenko redatuming, imaging, and multiple elimination and their mutual relations. Geophysics, 2021, 86, WC117-WC140.	2.6	19
14	Physical and non-physical energy in scattered wave source-receiver interferometry. Journal of the Acoustical Society of America, 2013, 133, 3790-3801.	1.1	15
15	Seismic interferometry by multidimensional deconvolution without wavefield separation. Geophysical Journal International, 2015, 202, 1-16.	2.4	15
16	Virtual plane-wave imaging via Marchenko redatuming. Geophysical Journal International, 2018, 214, 508-519.	2.4	14
17	Constructing new seismograms from old earthquakes: Retrospective seismology at multiple length scales. Journal of Geophysical Research: Solid Earth, 2015, 120, 2466-2490.	3.4	11
18	Wavefield finite time focusing with reduced spatial exposure. Journal of the Acoustical Society of America, 2019, 145, 3521-3530.	1.1	5

#	Article	IF	Citations
19	Dataâ€driven retrieval of primary planeâ€wave responses. Geophysical Prospecting, 2020, 68, 1834-1846.	1.9	5
20	3D Marchenko applications: implementation and examples. Geophysical Prospecting, 2022, 70, 35-56.	1.9	5
21	Bayesian tomography with prior-knowledge-based parametrization and surrogate modelling. Geophysical Journal International, 2022, 231, 673-691.	2.4	5
22	On the Retrieval of Forward-Scattered Waveforms From Acoustic Reflection and Transmission Data With the Marchenko Equation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1775-1786.	3.0	2
23	Wavefield focusing with reduced cranial invasiveness. , 2019, , .		1
24	Imaging with Marchenko focusing functions in acoustic and elastic media. , 2017, , .		1