

Albert Tarantola

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31
papers

9,172
citations

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h-index

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34
ext. papers

10,935
ext. citations

4.6
avg, IF

6.64
L-index

#	Paper	IF	Citations
31	Inverse Problem Theory and Methods for Model Parameter Estimation 2005 ,		2528
30	Inversion of seismic reflection data in the acoustic approximation. <i>Geophysics</i> , 1984 , 49, 1259-1266	3.1	2025
29	Generalized nonlinear inverse problems solved using the least squares criterion. <i>Reviews of Geophysics</i> , 1982 , 20, 219	23.1	1395
28	Monte Carlo sampling of solutions to inverse problems. <i>Journal of Geophysical Research</i> , 1995 , 100, 12431-12447	3.6	456
27	A strategy for nonlinear elastic inversion of seismic reflection data. <i>Geophysics</i> , 1986 , 51, 1893-1903	3.1	567
26	Two-dimensional nonlinear inversion of seismic waveforms: Numerical results. <i>Geophysics</i> , 1986 , 51, 1383-1403	3.18	418
25	Theoretical background for the inversion of seismic waveforms including elasticity and attenuation. <i>Pure and Applied Geophysics</i> , 1988 , 128, 365-399	2.2	230
24	Inversion of field data in fault tectonics to obtain the regional stress ? I. Single phase fault populations: a new method of computing the stress tensor. <i>Geophysical Journal International</i> , 1982 , 69, 607-621	2.6	177
23	16 Probabilistic approach to inverse problems. <i>International Geophysics</i> , 2002 , 237-265		131
22	Linear inverse Gaussian theory and geostatistics. <i>Geophysics</i> , 2006 , 71, R101-R111	3.1	97
21	Information on elastic parameters obtained from the amplitudes of reflected waves. <i>Geophysics</i> , 1995 , 60, 1426-1436	3.1	74
20	Waveform inversion of marine reflection seismograms for P impedance and Poisson's ratio. <i>Geophysical Journal International</i> , 1996 , 124, 363-371	2.6	67
19	Reference velocity model estimation from prestack waveforms: Coherency optimization by simulated annealing. <i>Geophysics</i> , 1989 , 54, 984-990	3.1	62
18	First Born and Rytov approximations: Modeling and inversion conditions in a canonical example. <i>Journal of the Acoustical Society of America</i> , 1988 , 83, 1045-1055	2.2	60
17	Multiparameter ℓ_1 norm waveform fitting: Interpretation of Gulf of Mexico reflection seismograms. <i>Geophysics</i> , 1999 , 64, 1023-1035	3.1	45
16	Numerical simulation of elastic wave propagation using a finite volume method. <i>Journal of Geophysical Research</i> , 1995 , 100, 2123-2133		41
15	Nonlinear elastic waveform inversion of land seismic reflection data. <i>Journal of Geophysical Research</i> , 1992 , 97, 4685		41

14	Monte Carlo estimation and resolution analysis of seismic background velocities. <i>Journal of Geophysical Research</i> , 1991 , 96, 20289-20299		36
13	Linearized inversion of multioffset seismic reflection data in the k domain. <i>Geophysics</i> , 1986 , 51, 1266-1276	3.1	32
12	Muon tomography: Plans for observations in the Lesser Antilles. <i>Earth, Planets and Space</i> , 2010 , 62, 153-165		29
11	Finite differences on minimal grids. <i>Geophysics</i> , 1994 , 59, 1435-1443	3.1	26
10	Theoretical Background for the Inversion of Seismic Waveforms, Including Elasticity and Attenuation 1988 , 365-399		19
9	Full waveform inversion of seismic data for a viscoelastic medium 2000 , 68-81		18
8	The state of affairs in inversion of seismic data: An OVSP example 1996 ,		8
7	Imaging of quantum-mechanical potentials. <i>Physical Review A</i> , 1989 , 39, 3303-3309	2.6	7
6	Nonlinear inversion of seismograms: State of the art 1990 ,		7
5	Gradient inversion of marine seismic reflection data: Parameterization and geometrical spreading 1993 ,		4
4	Ground-penetrating radar: Analysis of point diffractors for modeling and inversion. <i>Geophysics</i> , 2001 , 66, 540-550	3.1	2
3	Velocity model optimization by image focusing and waveform modeling using prestack depth migration 1989 ,		1
2	Theoretical Background for the Inversion of Seismic Waveforms, Including Elasticity and Attenuation 1989 , 157-189		
1	Development of Nonlinear Inverse Methods for Interpretation of Seismic Reflection Data 1992 , 5-30		