

# Albert Tarantola

## List of Publications by Year in descending order

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33  
papers

12,319  
citations

331259

21  
h-index

642321

23  
g-index

34  
all docs

34  
docs citations

34  
times ranked

7300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inversion of seismic reflection data in the acoustic approximation. <i>Geophysics</i> , 1984, 49, 1259-1266.	1.4	2,931
2	Generalized nonlinear inverse problems solved using the least squares criterion. <i>Reviews of Geophysics</i> , 1982, 20, 219-232.	9.0	1,710
3	Monte Carlo sampling of solutions to inverse problems. <i>Journal of Geophysical Research</i> , 1995, 100, 12431-12447.	3.3	1,028
4	A strategy for nonlinear elastic inversion of seismic reflection data. <i>Geophysics</i> , 1986, 51, 1893-1903.	1.4	781
5	Two-dimensional nonlinear inversion of seismic waveforms: Numerical results. <i>Geophysics</i> , 1986, 51, 1387-1403.	1.4	545
6	Theoretical background for the inversion of seismic waveforms including elasticity and attenuation. <i>Pure and Applied Geophysics</i> , 1988, 128, 365-399.	0.8	295
7	Popper, Bayes and the inverse problem. <i>Nature Physics</i> , 2006, 2, 492-494.	6.5	227
8	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.	1.0	211
9	16 Probabilistic approach to inverse problems. <i>International Geophysics</i> , 2002, , 237-265.	0.6	155
10	Linear inverse Gaussian theory and geostatistics. <i>Geophysics</i> , 2006, 71, R101-R111.	1.4	130
11	Information on elastic parameters obtained from the amplitudes of reflected waves. <i>Geophysics</i> , 1995, 60, 1426-1436.	1.4	93
12	Reference velocity model estimation from prestack waveforms: Coherency optimization by simulated annealing. <i>Geophysics</i> , 1989, 54, 984-990.	1.4	85
13	Waveform inversion of marine reflection seismograms for P impedance and Poisson's ratio. <i>Geophysical Journal International</i> , 1996, 124, 363-371.	1.0	82
14	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.	0.5	75
15	Multiparameter $\ell_1$ norm waveform fitting: Interpretation of Gulf of Mexico reflection seismograms. <i>Geophysics</i> , 1999, 64, 1023-1035.	1.4	59
16	Nonlinear elastic waveform inversion of land seismic reflection data. <i>Journal of Geophysical Research</i> , 1992, 97, 4685-4703.	3.3	55
17	Numerical simulation of elastic wave propagation using a finite volume method. <i>Journal of Geophysical Research</i> , 1995, 100, 2123-2133.	3.3	53
18	Monte Carlo estimation and resolution analysis of seismic background velocities. <i>Journal of Geophysical Research</i> , 1991, 96, 20289-20299.	3.3	44

#	ARTICLE	IF	CITATIONS
19	Linearized inversion of multioffset seismic reflection data in the $k$ -domain. <i>Geophysics</i> , 1986, 51, 1266-1276.	1.4	43
20	Muon tomography: Plans for observations in the Lesser Antilles. <i>Earth, Planets and Space</i> , 2010, 62, 153-165.	0.9	35
21	Finite differences on minimal grids. <i>Geophysics</i> , 1994, 59, 1435-1443.	1.4	33
22	Theoretical Background for the Inversion of Seismic Waveforms, Including Elasticity and Attenuation. , 1988, , 365-399.		26
23	Full waveform inversion of seismic data for a viscoelastic medium. , 2000, , 68-81.		22
24	Nonlinear inversion of seismograms: State of the art. , 1990, , .		13
25	The state of affairs in inversion of seismic data: An OVSP example. , 1996, , .		11
26	Imaging of quantum-mechanical potentials. <i>Physical Review A</i> , 1989, 39, 3303-3309.	1.0	7
27	Gradient inversion of marine seismic reflection data: Parameterization and geometrical spreading. , 1993, , .		5
28	Ground-penetrating radar: Analysis of point diffractors for modeling and inversion. <i>Geophysics</i> , 2001, 66, 540-550.	1.4	5
29	Velocity model optimization by image focusing and waveform modeling using prestack depth migration. , 1989, , .		2
30	Present know-how and difficulties in elastic nonlinear inversion of seismograms. , 1989, , .		1
31	Velocity estimation via de-migration and phase-fit maximization. , 2010, , .		0
32	Theoretical Background for the Inversion of Seismic Waveforms, Including Elasticity and Attenuation. , 1989, , 157-189.		0
33	Development of Nonlinear Inverse Methods for Interpretation of Seismic Reflection Data. , 1992, , 5-30.		0