

Jeannot Trampert

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

5,918
citations

45
h-index

72
g-index

154
ext. papers

6,637
ext. citations

3.9
avg, IF

5.97
L-index

#	Paper	IF	Citations
140	Self-similar properties of avalanche statistics in a simple turbulent model.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20210074	3	0
139	Imaging global mantle discontinuities: a test using full-waveforms and adjoint kernels. <i>Geophysical Journal International</i> , 2021 , 226, 1498-1516	2.6	2
138	Physics-Based Relationship for Pore Pressure and Vertical Stress Monitoring Using Seismic Velocity Variations. <i>Remote Sensing</i> , 2021 , 13, 2684	5	1
137	Stress-dependent elasticity and wave propagation [New insights and connections. <i>Geophysics</i> , 2021 , 86, W47-W64	3.1	0
136	A Laboratory Perspective on the Gutenberg-Richter and Characteristic Earthquake Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021730	3.6	
135	Inferring material properties of the lower mantle minerals using Mixture Density Networks. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 319, 106784	2.3	0
134	A multi-component lattice Boltzmann approach to study the causality of plastic events. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190403		
133	On interevent time distributions of avalanche dynamics. <i>Scientific Reports</i> , 2020 , 10, 626	4.9	9
132	Accelerated full-waveform inversion using dynamic mini-batches. <i>Geophysical Journal International</i> , 2020 , 221, 1427-1438	2.6	10
131	Benchmarking wave equation solvers using interface conditions: the case of porous media. <i>Geophysical Journal International</i> , 2020 , 224, 355-376	2.6	1
130	Probabilistic moveout analysis by time warping. <i>Geophysics</i> , 2020 , 85, U1-U20	3.1	3
129	Common reflection point mapping of the mantle transition zone using recorded and 3-D synthetic ScS reverberations. <i>Geophysical Journal International</i> , 2020 , 220, 724-736	2.6	2
128	Sensitivity Kernels of PP Precursor Traveltimes and Their Limitations for Imaging Topography of Discontinuities. <i>Geophysical Research Letters</i> , 2019 , 46, 698-707	4.9	7
127	Describing stress-dependent elasticity and wave propagation: New insights and connections between approaches 2019 ,		1
126	Effects of Induced Stress on Seismic Waves: Validation Based on Ab Initio Calculations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 729-741	3.6	5
125	Exact free oscillation spectra, splitting functions and the resolvability of Earth's density structure. <i>Geophysical Journal International</i> , 2018 , 213, 58-76	2.6	15
124	Hamilton's principle and normal mode coupling in an aspherical planet with a fluid core. <i>Geophysical Journal International</i> , 2018 ,	2.6	1

123	Effects of induced stress on seismic forward modelling and inversion. <i>Geophysical Journal International</i> , 2018 , 213, 851-867	2.6	9
122	The Collaborative Seismic Earth Model: Generation 1. <i>Geophysical Research Letters</i> , 2018 , 45, 4007-4016	4.9	40
121	A comparison of reflection coefficients in porous media from 2D plane-wave analysis and spectral-element forward modeling 2018 ,		2
120	Insights on Upper Mantle Melting, Rheology, and Anelastic Behavior From Seismic Shear Wave Tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 3892-3916	3.6	7
119	The crustal structure beneath The Netherlands derived from ambient seismic noise. <i>Tectonophysics</i> , 2017 , 721, 361-371	3.1	9
118	Sensitivity analysis of seismic waveforms to upper-mantle discontinuities using the adjoint method. <i>Geophysical Journal International</i> , 2017 , 210, 1965-1980	2.6	8
117	Seismic signature of a hydrous mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2016 , 250, 46-63	2.3	33
116	Solving probabilistic inverse problems rapidly with prior samples. <i>Geophysical Journal International</i> , 2016 , 205, 1710-1728	2.6	14
115	Using pattern recognition to infer parameters governing mantle convection. <i>Physics of the Earth and Planetary Interiors</i> , 2016 , 257, 171-186	2.3	16
114	The impact of approximations and arbitrary choices on geophysical images. <i>Geophysical Journal International</i> , 2016 , 204, 59-73	2.6	9
113	Earthquake statistics and plastic events in soft-glassy materials. <i>Geophysical Journal International</i> , 2016 , 207, 1667-1674	2.6	10
112	The effect of topography of upper-mantle discontinuities on SS precursors. <i>Geophysical Journal International</i> , 2016 , 204, 667-681	2.6	16
111	Probabilistic point source inversion of strong-motion data in 3-D media using pattern recognition: A case study for the 2008 Mw 5.4 Chino Hills earthquake. <i>Geophysical Research Letters</i> , 2016 , 43, 8492-8498	4.9	6
110	Seismic Detection of Post-perovskite Inside the Earth 2015 , 391-440		22
109	Robust and Fast Probabilistic Source Parameter Estimation from Near-Field Displacement Waveforms Using Pattern Recognition. <i>Bulletin of the Seismological Society of America</i> , 2015 , 105, 2299-2312	2.3	11
108	Robust constraints on average radial lower mantle anisotropy and consequences for composition and texture. <i>Earth and Planetary Science Letters</i> , 2015 , 429, 101-109	5.3	16
107	Bayesian inversion of free oscillations for Earth's radial (an)elastic structure. <i>Physics of the Earth and Planetary Interiors</i> , 2014 , 237, 1-17	2.3	20
106	A framework for fast probabilistic centroid-moment-tensor determination Inversion of regional static displacement measurements. <i>Geophysical Journal International</i> , 2014 , 196, 1676-1693	2.6	23

105	Separating intrinsic and apparent anisotropy. <i>Physics of the Earth and Planetary Interiors</i> , 2013 , 219, 11-20.	2.3	50
104	The deep structure of the North Anatolian Fault Zone. <i>Earth and Planetary Science Letters</i> , 2013 , 373, 109-117	5.3	110
103	The Iceland-Ian Mayen plume system and its impact on mantle dynamics in the North Atlantic region: Evidence from full-waveform inversion. <i>Earth and Planetary Science Letters</i> , 2013 , 367, 39-51	5.3	173
102	Global Imaging of the Earth's Deep Interior: Seismic Constraints on (An)isotropy, Density and Attenuation 2013 , 324-350		6
101	Bayesian inference of Earth's radial seismic structure from body-wave traveltimes using neural networks. <i>Geophysical Journal International</i> , 2013 , 195, 408-422	2.6	26
100	Resolution tests revisited: the power of random numbers. <i>Geophysical Journal International</i> , 2013 , 192, 676-680	2.6	27
99	Multiscale full waveform inversion. <i>Geophysical Journal International</i> , 2013 , 194, 534-556	2.6	138
98	Discovery and analysis of topographic features using learning algorithms: A seamount case study. <i>Geophysical Research Letters</i> , 2013 , 40, 3048-3054	4.9	6
97	Data space reduction, quality assessment and searching of seismograms: autoencoder networks for waveform data. <i>Geophysical Journal International</i> , 2012 , 189, 1183-1202	2.6	36
96	Normal mode sensitivity to Earth's D' layer and topography on the core-mantle boundary: what we can and cannot see. <i>Geophysical Journal International</i> , 2012 , 190, 553-568	2.6	30
95	Imaging mantle plumes with instantaneous phase measurements of diffracted waves. <i>Geophysical Journal International</i> , 2012 , 190, 650-664	2.6	34
94	Toward quantifying uncertainty in travel time tomography using the null-space shuttle. <i>Journal of Geophysical Research</i> , 2012 , 117,		20
93	Seismic and mineralogical structures of the lower mantle from probabilistic tomography. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		78
92	Assessing the uncertainties on seismic source parameters: Towards realistic error estimates for centroid-moment-tensor determinations. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 210-211, 36-49	2.3	29
91	On the likelihood of post-perovskite near the core-mantle boundary: A statistical interpretation of seismic observations. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 210-211, 21-35	2.3	23
90	Characteristics of Seismic Noise: Fundamental and Higher Mode Energy Observed in the Northeast of the Netherlands. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 1388-1399	2.3	34
89	Tomographic errors from wave front healing: more than just a fast bias. <i>Geophysical Journal International</i> , 2011 , 185, 385-402	2.6	33
88	Hessian kernels of seismic data functionals based upon adjoint techniques. <i>Geophysical Journal International</i> , 2011 , 185, 775-798	2.6	128

87	Misfit functions for full waveform inversion based on instantaneous phase and envelope measurements. <i>Geophysical Journal International</i> , 2011 , 185, 845-870	2.6	231
86	Resolution analysis in full waveform inversion. <i>Geophysical Journal International</i> , 2011 , 187, 1604-1624	2.6	128
85	Assessment of tomographic mantle models using spectral element seismograms. <i>Geophysical Journal International</i> , 2010 , 180, 1187-1199	2.6	14
84	Approximations in seismic interferometry and their effects on surface waves. <i>Geophysical Journal International</i> , 2010 , no-no	2.6	21
83	On the robustness of global radially anisotropic surface wave tomography. <i>Journal of Geophysical Research</i> , 2010 , 115,		69
82	Seismic structure of Precambrian lithosphere: New constraints from broad-band surface-wave dispersion. <i>Lithos</i> , 2009 , 109, 96-111	2.9	99
81	Reply to comment by S. Crampin on Global anisotropic phase velocity maps for higher mode Love and Rayleigh waves. <i>Geophysical Journal International</i> , 2009 , 177, 99-103	2.6	
80	Path-average kernels for long wavelength travelt ime tomography. <i>Geophysical Journal International</i> , 2009 , 177, 639-650	2.6	7
79	Principal component analysis of anisotropic finite-frequency sensitivity kernels. <i>Geophysical Journal International</i> , 2009 , 179, 1186-1198	2.6	23
78	Virtual seismometers in the subsurface of the Earth from seismic interferometry. <i>Nature Geoscience</i> , 2009 , 2, 700-704	18.3	79
77	Global variations of temperature and water content in the mantle transition zone from higher mode surface waves. <i>Earth and Planetary Science Letters</i> , 2009 , 282, 91-101	5.3	51
76	Global anisotropic phase velocity maps for higher mode Love and Rayleigh waves. <i>Geophysical Journal International</i> , 2008 , 172, 1016-1032	2.6	66
75	On crustal corrections in surface wave tomography. <i>Geophysical Journal International</i> , 2008 , 172, 1066-1082	2.6	81
74	Azimuthal anisotropy of Rayleigh-wave phase velocities in the east-central United States. <i>Geophysical Journal International</i> , 2008 , 173, 827-843	2.6	67
73	Probability of radial anisotropy in the deep mantle. <i>Earth and Planetary Science Letters</i> , 2008 , 270, 241-250	5.3	62
72	Stratified seismic anisotropy reveals past and present deformation beneath the East-central United States. <i>Earth and Planetary Science Letters</i> , 2008 , 274, 489-498	5.3	52
71	Reply to comment by A. Tommasi and D. Mainprice on Visser et al. (2008), Probability of radial anisotropy in the deep mantle. <i>Earth Planet Sci. Lett.</i> 270 (2008) 241-250. <i>Earth and Planetary Science Letters</i> , 2008 , 276, 226-227	5.3	1
70	Finite-Frequency SKS Splitting: Measurement and Sensitivity Kernels. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 1797-1810	2.3	26

69	Global Love wave overtone measurements. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	22
68	Fully nonlinear inversion of fundamental mode surface waves for a global crustal model. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	53
67	Finite-frequency sensitivity of surface waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , 2007 , 168, 1153-1174	2.6	67
66	Global crustal thickness from neural network inversion of surface wave data. <i>Geophysical Journal International</i> , 2007 , 169, 706-722	2.6	107
65	Finite-frequency sensitivity of body waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , 2007 , 171, 368-389	2.6	51
64	Full-waveform static corrections using blind channel identification. <i>Geophysics</i> , 2007 , 72, U55-U66	3.1	11
63	Chemical versus thermal heterogeneity in the lower mantle: The most likely role of anelasticity. <i>Earth and Planetary Science Letters</i> , 2007 , 262, 429-437	5.3	41
62	Thermo-Chemical Structure of the Lower Mantle: Seismological Evidence and Consequences for Geodynamics 2007 , 293-320		12
61	Three-Channel Correlation Analysis: A New Technique to Measure Instrumental Noise of Digitizers and Seismic Sensors. <i>Bulletin of the Seismological Society of America</i> , 2006 , 96, 258-271	2.3	61
60	Radial anisotropy in seismic reference models of the mantle. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		44
59	Validation of first-order diffraction theory for the traveltimes and amplitudes of propagating waves. <i>Geophysics</i> , 2006 , 71, T167-T177	3.1	27
58	Surface-consistent deconvolution using reciprocity and waveform inversion. <i>Geophysics</i> , 2006 , 71, V19-V30		15
57	Surface wave tomography: finite-frequency effects lost in the null space. <i>Geophysical Journal International</i> , 2006 , 164, 394-400	2.6	65
56	Surface-consistent amplitude corrections for single or multicomponent sources and receivers using reciprocity and waveform inversion. <i>Geophysical Journal International</i> , 2006 , 165, 311-322	2.6	4
55	Error bars for the global seismic Q profile. <i>Earth and Planetary Science Letters</i> , 2005 , 230, 413-423	5.3	47
54	Minor-arc and major-arc global surface wave diffraction tomography. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 149, 205-223	2.3	41
53	Earth's Deep Mantle: Structure, Composition, and Evolution An Introduction. <i>Geophysical Monograph Series</i> , 2005 , 1-7	1.1	1
52	Stability of MgSiO ₃ Perovskite in the Lower Mantle. <i>Geophysical Monograph Series</i> , 2005 , 261-282	1.1	3

51	The Uncertain Major Element Bulk Composition of Earth's Mantle. <i>Geophysical Monograph Series</i> , 2005 , 187-199	1.1	5
50	Towards a Quantitative Interpretation of Global Seismic Tomography. <i>Geophysical Monograph Series</i> , 2005 , 47-62	1.1	19
49	Numerical and Laboratory Studies of Mantle Convection: Philosophy, Accomplishments, and Thermochemical Structure and Evolution. <i>Geophysical Monograph Series</i> , 2005 , 83-99	1.1	19
48	Heterogeneous Lowermost Mantle: Compositional Constraints and Seismological Observables. <i>Geophysical Monograph Series</i> , 2005 , 101-116	1.1	8
47	Numerical Study of the Origin and Stability of Chemically Distinct Reservoirs Deep in Earth's Mantle. <i>Geophysical Monograph Series</i> , 2005 , 117-136	1.1	7
46	Self-Gravity, Self-Consistency, and Self-Organization in Geodynamics and Geochemistry. <i>Geophysical Monograph Series</i> , 2005 , 165-186	1.1	7
45	Thermochemical State of the Lower Mantle: New Insights from Mineral Physics. <i>Geophysical Monograph Series</i> , 2005 , 241-260	1.1	12
44	Synthetic Tomographic Images of Slabs from Mineral Physics. <i>Geophysical Monograph Series</i> , 2005 , 283-300		32
43	Subsonic near-surface P-velocity and low S-velocity observations using propagator inversion. <i>Geophysics</i> , 2005 , 70, R15-R23	3.1	5
42	Probability density functions for radial anisotropy from fundamental mode surface wave data and the Neighbourhood Algorithm. <i>Geophysical Journal International</i> , 2004 , 157, 1163-1174	2.6	21
41	Propagator and wave-equation inversion for near-receiver material properties. <i>Geophysical Journal International</i> , 2004 , 157, 796-812	2.6	5
40	Probabilistic tomography maps chemical heterogeneities throughout the lower mantle. <i>Science</i> , 2004 , 306, 853-6	33.3	372
39	Thermal and compositional anomalies beneath the North American continent. <i>Journal of Geophysical Research</i> , 2004 , 109,		61
38	Towards a lower mantle reference temperature and composition. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 161-175	5.3	66
37	Probability density functions for radial anisotropy: implications for the upper 1200 km of the mantle. <i>Earth and Planetary Science Letters</i> , 2004 , 217, 151-162	5.3	53
36	Dispersion Measurements of P Waves and their Implications for Mantle Q p. <i>Pure and Applied Geophysics</i> , 2003 , 160, 2223-2238	2.2	3
35	Global anisotropic phase velocity maps for fundamental mode surface waves between 40 and 150 s. <i>Geophysical Journal International</i> , 2003 , 154, 154-165	2.6	118
34	Optimal nonlinear Bayesian experimental design: an application to amplitude versus offset experiments. <i>Geophysical Journal International</i> , 2003 , 155, 411-421	2.6	52

33	Implementing spectral leakage corrections in global surface wave tomography. <i>Geophysical Journal International</i> , 2003 , 155, 532-538	2.6	13
32	New array monitors seismic activity near the Gulf of California in Mexico. <i>Eos</i> , 2003 , 84, 29	1.5	30
31	Mantle tomography and its relation to temperature and composition. <i>Physics of the Earth and Planetary Interiors</i> , 2003 , 140, 277-291	2.3	84
30	Using probabilistic seismic tomography to test mantle velocity-density relationships. <i>Earth and Planetary Science Letters</i> , 2003 , 215, 121-134	5.3	58
29	Robust normal mode constraints on inner-core anisotropy from model space search. <i>Science</i> , 2003 , 299, 552-5	33.3	112
28	The effect of scattering in surface wave tomography. <i>Geophysical Journal International</i> , 2002 , 149, 755-767	6.7	89
27	P and S tomography using normal-mode and surface waves data with a neighbourhood algorithm. <i>Geophysical Journal International</i> , 2002 , 149, 646-658	2.6	27
26	Reliable mantle density error bars: an application of the neighbourhood algorithm to normal-mode and surface wave data. <i>Geophysical Journal International</i> , 2002 , 150, 665-672	2.6	22
25	Global azimuthal anisotropy in the transition zone. <i>Science</i> , 2002 , 296, 1297-9	33.3	121
24	Anomalies of temperature and iron in the uppermost mantle inferred from gravity data and tomographic models. <i>Physics of the Earth and Planetary Interiors</i> , 2002 , 129, 245-264	2.3	66
23	Assessment of global phase velocity models. <i>Geophysical Journal International</i> , 2001 , 144, 165-174	2.6	44
22	Are we exceeding the limits of the Great Circle Approximation in global surface wave tomography?. <i>Geophysical Research Letters</i> , 2001 , 28, 2341-2344	4.9	26
21	Shear velocity structure of central Eurasia from inversion of surface wave velocities. <i>Physics of the Earth and Planetary Interiors</i> , 2001 , 123, 169-184	2.3	121
20	The relative density-to-shear velocity scaling in the uppermost mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2001 , 124, 193-212	2.3	39
19	Sensitivities of seismic velocities to temperature, pressure and composition in the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2001 , 124, 255-267	2.3	75
18	Effects of arrival time errors on traveltimes tomography. <i>Geophysical Journal International</i> , 2000 , 142, 270-276	2.6	10
17	The observation of inner core shear waves. <i>Geophysical Journal International</i> , 2000 , 142, 67-73	2.6	63
16	Linear and Nonlinear Inverse Problems 2000 , 93-164		10

15	Thermal structure of continental upper mantle inferred from S-wave velocity and surface heat flow. <i>Earth and Planetary Science Letters</i> , 2000 , 181, 395-407	5.3	69
14	Global maps of Rayleigh wave attenuation for periods between 40 and 150 seconds. <i>Geophysical Research Letters</i> , 2000 , 27, 3619-3622	4.9	44
13	Bias in reported seismic arrival times deduced from the ISC Bulletin. <i>Geophysical Journal International</i> , 1999 , 137, 163-174	2.6	30
12	Inverse Problems in Geophysics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 1999 , 119-190	0.6	39
11	Eurasian fundamental mode surface wave phase velocities and their relationship with tectonic structures. <i>Journal of Geophysical Research</i> , 1998 , 103, 26919-26947		60
10	Global seismic tomography: the inverse problem and beyond. <i>Inverse Problems</i> , 1998 , 14, 371-385	2.3	41
9	Comparative study of superconducting gravimeters and broadband seismometers STS-1 / Z in seismic and subseismic frequency bands. <i>Physics of the Earth and Planetary Interiors</i> , 1997 , 101, 203-217	2.3	36
8	On ACH, or how reliable is regional teleseismic delay time tomography?. <i>Physics of the Earth and Planetary Interiors</i> , 1997 , 102, 21-32	2.3	33
7	High resolution global phase velocity distributions. <i>Geophysical Research Letters</i> , 1996 , 23, 21-24	4.9	100
6	Model Estimations Biased by Truncated Expansions: Possible Artifacts in Seismic Tomography. <i>Science</i> , 1996 , 271, 1257-1260	33.3	112
5	Global phase velocity maps of Love and Rayleigh waves between 40 and 150 seconds. <i>Geophysical Journal International</i> , 1995 , 122, 675-690	2.6	262
4	SH Propagator Matrix and Qs Estimates From Borehole- and Surface-Recorded Earthquake Data. <i>Geophysical Journal International</i> , 1993 , 112, 290-299	2.6	37
3	Comment on Comparison of iterative back-projection inversion and generalized inversion without blocks: case studies in attenuation tomography by P. Ho-Liu, J.-P. Montagner and H. Kanamori. <i>Geophysical Journal International</i> , 1990 , 103, 755-756	2.6	3
2	Simultaneous iterative reconstruction technique: Physical interpretation based on the generalized least squares solution. <i>Journal of Geophysical Research</i> , 1990 , 95, 12553		71
1	Large-scale P-velocity structures in the Euro-Mediterranean area. <i>Geophysical Journal International</i> , 1989 , 99, 583-594	2.6	38