

Jeannot Trampert

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5204853/jeannot-trampert-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Probabilistic tomography maps chemical heterogeneities throughout the lower mantle. <i>Science</i> , 2004 , 306, 853-6	33.3	372
139	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
138	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
137	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
136	Multiscale full waveform inversion. <i>Geophysical Journal International</i> , 2013 , 194, 534-556	2.6	138
135	Hessian kernels of seismic data functionals based upon adjoint techniques. <i>Geophysical Journal International</i> , 2011 , 185, 775-798	2.6	128
134	Resolution analysis in full waveform inversion. <i>Geophysical Journal International</i> , 2011 , 187, 1604-1624	2.6	128
133	Global azimuthal anisotropy in the transition zone. <i>Science</i> , 2002 , 296, 1297-9	33.3	121
132	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
131	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
130	Robust normal mode constraints on inner-core anisotropy from model space search. <i>Science</i> , 2003 , 299, 552-5	33.3	112
129	Model Estimations Biased by Truncated Expansions: Possible Artifacts in Seismic Tomography. <i>Science</i> , 1996 , 271, 1257-1260	33.3	112
128	The deep structure of the North Anatolian Fault Zone. <i>Earth and Planetary Science Letters</i> , 2013 , 373, 109-117	5.3	110
127	Global crustal thickness from neural network inversion of surface wave data. <i>Geophysical Journal International</i> , 2007 , 169, 706-722	2.6	107
126	High resolution global phase velocity distributions. <i>Geophysical Research Letters</i> , 1996 , 23, 21-24	4.9	100
125	Seismic structure of Precambrian lithosphere: New constraints from broad-band surface-wave dispersion. <i>Lithos</i> , 2009 , 109, 96-111	2.9	99
124	The effect of scattering in surface wave tomography. <i>Geophysical Journal International</i> , 2002 , 149, 755-767	2.6	89

123	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
122	On crustal corrections in surface wave tomography. <i>Geophysical Journal International</i> , 2008 , 172, 1066-1082		81
121	Virtual seismometers in the subsurface of the Earth from seismic interferometry. <i>Nature Geoscience</i> , 2009 , 2, 700-704	18.3	79
120	Seismic and mineralogical structures of the lower mantle from probabilistic tomography. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		78
119	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
118	Simultaneous iterative reconstruction technique: Physical interpretation based on the generalized least squares solution. <i>Journal of Geophysical Research</i> , 1990 , 95, 12553		71
117	On the robustness of global radially anisotropic surface wave tomography. <i>Journal of Geophysical Research</i> , 2010 , 115,		69
116	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
115	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
114	Finite-frequency sensitivity of surface waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , 2007 , 168, 1153-1174	2.6	67
113	Global anisotropic phase velocity maps for higher mode Love and Rayleigh waves. <i>Geophysical Journal International</i> , 2008 , 172, 1016-1032	2.6	66
112	Towards a lower mantle reference temperature and composition. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 161-175	5.3	66
111	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
110	Surface wave tomography: finite-frequency effects lost in the null space. <i>Geophysical Journal International</i> , 2006 , 164, 394-400	2.6	65
109	The observation of inner core shear waves. <i>Geophysical Journal International</i> , 2000 , 142, 67-73	2.6	63
108	Probability of radial anisotropy in the deep mantle. <i>Earth and Planetary Science Letters</i> , 2008 , 270, 241-250		62
107	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
106	Thermal and compositional anomalies beneath the North American continent. <i>Journal of Geophysical Research</i> , 2004 , 109,		61

105	Eurasian fundamental mode surface wave phase velocities and their relationship with tectonic structures. <i>Journal of Geophysical Research</i> , 1998 , 103, 26919-26947		60
104	Using probabilistic seismic tomography to test mantle velocity-density relationships. <i>Earth and Planetary Science Letters</i> , 2003 , 215, 121-134	5.3	58
103	Fully nonlinear inversion of fundamental mode surface waves for a global crustal model. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	53
102	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
101	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
100	Optimal nonlinear Bayesian experimental design: an application to amplitude versus offset experiments. <i>Geophysical Journal International</i> , 2003 , 155, 411-421	2.6	52
99	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
98	Finite-frequency sensitivity of body waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , 2007 , 171, 368-389	2.6	51
97	Separating intrinsic and apparent anisotropy. <i>Physics of the Earth and Planetary Interiors</i> , 2013 , 219, 11-20.	2.3	50
96	Error bars for the global seismic Q profile. <i>Earth and Planetary Science Letters</i> , 2005 , 230, 413-423	5.3	47
95	Radial anisotropy in seismic reference models of the mantle. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		44
94	Assessment of global phase velocity models. <i>Geophysical Journal International</i> , 2001 , 144, 165-174	2.6	44
93	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
92	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
91	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
90	Global seismic tomography: the inverse problem and beyond. <i>Inverse Problems</i> , 1998 , 14, 371-385	2.3	41
89	The Collaborative Seismic Earth Model: Generation 1. <i>Geophysical Research Letters</i> , 2018 , 45, 4007-4016	4.9	40
88	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

87	Inverse Problems in Geophysics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 1999 , 119-190	0.6	39
86	Large-scale P-velocity structures in the Euro-Mediterranean area. <i>Geophysical Journal International</i> , 1989 , 99, 583-594	2.6	38
85	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
84	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
83	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
82	Imaging mantle plumes with instantaneous phase measurements of diffracted waves. <i>Geophysical Journal International</i> , 2012 , 190, 650-664	2.6	34
81	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
80	Seismic signature of a hydrous mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2016 , 250, 46-63	2.3	33
79	Tomographic errors from wave front healing: more than just a fast bias. <i>Geophysical Journal International</i> , 2011 , 185, 385-402	2.6	33
78	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
77	Synthetic Tomographic Images of Slabs from Mineral Physics. <i>Geophysical Monograph Series</i> , 2005 , 283-300	3.0	32
76	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
75	New array monitors seismic activity near the Gulf of California in Mexico. <i>Eos</i> , 2003 , 84, 29	1.5	30
74	Bias in reported seismic arrival times deduced from the ISC Bulletin. <i>Geophysical Journal International</i> , 1999 , 137, 163-174	2.6	30
73	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
72	Resolution tests revisited: the power of random numbers. <i>Geophysical Journal International</i> , 2013 , 192, 676-680	2.6	27
71	Validation of first-order diffraction theory for the traveltimes and amplitudes of propagating waves. <i>Geophysics</i> , 2006 , 71, T167-T177	3.1	27
70	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

69	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
68	Finite-Frequency SKS Splitting: Measurement and Sensitivity Kernels. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 1797-1810	2.3	26
67	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
66	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
65	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
64	Principal component analysis of anisotropic finite-frequency sensitivity kernels. <i>Geophysical Journal International</i> , 2009 , 179, 1186-1198	2.6	23
63	Seismic Detection of Post-perovskite Inside the Earth 2015 , 391-440		22
62	Global Love wave overtone measurements. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	22
61	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
60	Approximations in seismic interferometry and their effects on surface waves. <i>Geophysical Journal International</i> , 2010 , no-no	2.6	21
59	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
58	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
57	Toward quantifying uncertainty in travel time tomography using the null-space shuttle. <i>Journal of Geophysical Research</i> , 2012 , 117,		20
56	Towards a Quantitative Interpretation of Global Seismic Tomography. <i>Geophysical Monograph Series</i> , 2005 , 47-62	1.1	19
55	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
54	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
53	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
52	The effect of topography of upper-mantle discontinuities on SS precursors. <i>Geophysical Journal International</i> , 2016 , 204, 667-681	2.6	16

51	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
50	Surface-consistent deconvolution using reciprocity and waveform inversion. <i>Geophysics</i> , 2006 , 71, V19-V30	3.0	15
49	Solving probabilistic inverse problems rapidly with prior samples. <i>Geophysical Journal International</i> , 2016 , 205, 1710-1728	2.6	14
48	Assessment of tomographic mantle models using spectral element seismograms. <i>Geophysical Journal International</i> , 2010 , 180, 1187-1199	2.6	14
47	Implementing spectral leakage corrections in global surface wave tomography. <i>Geophysical Journal International</i> , 2003 , 155, 532-538	2.6	13
46	Thermochemical State of the Lower Mantle: New Insights from Mineral Physics. <i>Geophysical Monograph Series</i> , 2005 , 241-260	1.1	12
45	Thermo-Chemical Structure of the Lower Mantle: Seismological Evidence and Consequences for Geodynamics 2007 , 293-320		12
44	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
43	Full-waveform static corrections using blind channel identification. <i>Geophysics</i> , 2007 , 72, U55-U66	3.1	11
42	Accelerated full-waveform inversion using dynamic mini-batches. <i>Geophysical Journal International</i> , 2020 , 221, 1427-1438	2.6	10
41	Effects of arrival time errors on travelttime tomography. <i>Geophysical Journal International</i> , 2000 , 142, 270-276	2.6	10
40	Linear and Nonlinear Inverse Problems 2000 , 93-164		10
39	Earthquake statistics and plastic events in soft-glassy materials. <i>Geophysical Journal International</i> , 2016 , 207, 1667-1674	2.6	10
38	The crustal structure beneath The Netherlands derived from ambient seismic noise. <i>Tectonophysics</i> , 2017 , 721, 361-371	3.1	9
37	On interevent time distributions of avalanche dynamics. <i>Scientific Reports</i> , 2020 , 10, 626	4.9	9
36	Effects of induced stress on seismic forward modelling and inversion. <i>Geophysical Journal International</i> , 2018 , 213, 851-867	2.6	9
35	The impact of approximations and arbitrary choices on geophysical images. <i>Geophysical Journal International</i> , 2016 , 204, 59-73	2.6	9
34	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

33	Heterogeneous Lowermost Mantle: Compositional Constraints and Seismological Observables. <i>Geophysical Monograph Series</i> , 2005 , 101-116	1.1	8
32	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
31	Path-average kernels for long wavelength travelttime tomography. <i>Geophysical Journal International</i> , 2009 , 177, 639-650	2.6	7
30	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
29	Self-Gravity, Self-Consistency, and Self-Organization in Geodynamics and Geochemistry. <i>Geophysical Monograph Series</i> , 2005 , 165-186	1.1	7
28	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
27	Global Imaging of the Earth's Deep Interior: Seismic Constraints on (An)isotropy, Density and Attenuation 2013 , 324-350		6
26	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
25	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
24	The Uncertain Major Element Bulk Composition of Earth's Mantle. <i>Geophysical Monograph Series</i> , 2005 , 187-199	1.1	5
23	Propagator and wave-equation inversion for near-receiver material properties. <i>Geophysical Journal International</i> , 2004 , 157, 796-812	2.6	5
22	Subsonic near-surface P-velocity and low S-velocity observations using propagator inversion. <i>Geophysics</i> , 2005 , 70, R15-R23	3.1	5
21	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
20	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
19	Stability of MgSiO ₃ Perovskite in the Lower Mantle. <i>Geophysical Monograph Series</i> , 2005 , 261-282	1.1	3
18	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
17	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
16	Probabilistic moveout analysis by time warping. <i>Geophysics</i> , 2020 , 85, U1-U20	3.1	3

15	A comparison of reflection coefficients in porous media from 2D plane-wave analysis and spectral-element forward modeling 2018 ,		2
14	Imaging global mantle discontinuities: a test using full-waveforms and adjoint kernels. <i>Geophysical Journal International</i> , 2021 , 226, 1498-1516	2.6	2
13	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
12	Hamilton's principle and normal mode coupling in an aspherical planet with a fluid core. <i>Geophysical Journal International</i> , 2018 ,	2.6	1
11	Reply to comment by A. Tommasi and D. Mainprice on Visser et al. (2008), Probability of radial anisotropy in the deep mantle [Earth Planet Sci. Lett. 270 (2008) 241-250]. <i>Earth and Planetary Science Letters</i> , 2008 , 276, 226-227	5.3	1
10	Earth's Deep Mantle: Structure, Composition, and Evolution An Introduction. <i>Geophysical Monograph Series</i> , 2005 , 1-7	1.1	1
9	Describing stress-dependent elasticity and wave propagation: New insights and connections between approaches 2019 ,		1
8	Benchmarking wave equation solvers using interface conditions: the case of porous media. <i>Geophysical Journal International</i> , 2020 , 224, 355-376	2.6	1
7	Physics-Based Relationship for Pore Pressure and Vertical Stress Monitoring Using Seismic Velocity Variations. <i>Remote Sensing</i> , 2021 , 13, 2684	5	1
6	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
5	Stress-dependent elasticity and wave propagation [New insights and connections. <i>Geophysics</i> , 2021 , 86, W47-W64	3.1	0
4	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
3	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		3
2	Reply to comment by S. Crampin on Global anisotropic phase velocity maps for higher mode Love and Rayleigh waves [Geophysical Journal International, 2009 , 177, 99-103	2.6	
1	A Laboratory Perspective on the Gutenberg-Richter and Characteristic Earthquake Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021730	3.6	