

Jeroen Tromp

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.

196
papers

11,366
citations

54
h-index

102
g-index

209
ext. papers

13,373
ext. citations

5.2
avg, IF

6.61
L-index

#	Paper	IF	Citations
196	Inferring Solar Differential Rotation through Normal-mode Coupling Using Bayesian Statistics. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 253, 47	8	4
195	Generation of secondary microseism Love waves: effects of bathymetry, 3-D structure and source seasonality. <i>Geophysical Journal International</i> , 2021 , 226, 192-219	2.6	5
194	Stress-dependent elasticity and wave propagation [New insights and connections. <i>Geophysics</i> , 2021 , 86, W47-W64	3.1	0
193	The origin of secondary microseism Love waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29504-29511	11.5	10
192	Source encoding for viscoacoustic ultrasound computed tomography. <i>Journal of the Acoustical Society of America</i> , 2020 , 147, 3221	2.2	5
191	Global adjoint tomography model GLAD-M25. <i>Geophysical Journal International</i> , 2020 , 223, 1-21	2.6	35
190	Sensitivity Kernels for Inferring Lorentz Stresses from Normal-mode Frequency Splittings in the Sun. <i>Astrophysical Journal</i> , 2020 , 897, 38	4.7	2
189	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020 , 13, 213-220	18.3	129
188	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020 , 13, 183-189	18.3	155
187	Application of 2D full-waveform inversion on exploration land data. <i>Geophysics</i> , 2020 , 85, R75-R86	3.1	10
186	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125,	3.6	30
185	Seismic wavefield imaging of Earth's interior across scales. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 40-53	30.2	30
184	Impact of topography on earthquake static slip estimates. <i>Tectonophysics</i> , 2020 , 791, 228566	3.1	8
183	Balancing unevenly distributed data in seismic tomography: a global adjoint tomography example. <i>Geophysical Journal International</i> , 2019 , 219, 1225-1236	2.6	11
182	Spectral-infinite-element simulations of earthquake-induced gravity perturbations. <i>Geophysical Journal International</i> , 2019 , 217, 451-468	2.6	9
181	SEIS: Insight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019 , 215, 12	7.5	143
180	Impact of topography and three-dimensional heterogeneity on coseismic deformation. <i>Geophysical Journal International</i> , 2019 , 217, 866-878	2.6	7

179	Source encoding for adjoint tomography. <i>Geophysical Journal International</i> , 2019 , 218, 2019-2044	2.6	7
178	A New Generation of Earth Mantle Model from Global Adjoint Tomography. <i>Acta Geologica Sinica</i> , 2019 , 93, 140-140	0.7	
177	Simulations of seismic wave propagation using a spectral-element method in a Lagrangian framework with logarithmic strain. <i>Geophysical Journal International</i> , 2019 , 216, 2148-2157	2.6	2
176	Spectral-infinite-element simulations of magnetic anomalies. <i>Geophysical Journal International</i> , 2019 , 217, 1656-1667	2.6	4
175	Describing stress-dependent elasticity and wave propagation: New insights and connections between approaches 2019 ,		1
174	Spectral-Element Simulations of Acoustic Waves Induced by a Moving Underwater Source. <i>Journal of Theoretical and Computational Acoustics</i> , 2019 , 27, 1850040	0.8	1
173	Spectral-infinite-element simulations of coseismic and post-earthquake deformation. <i>Geophysical Journal International</i> , 2019 , 216, 1364-1393	2.6	9
172	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
171	Tunnel detection at Yuma Proving Ground, Arizona, USA [Part 2: 3D full-waveform inversion experiments. <i>Geophysics</i> , 2019 , 84, B107-B120	3.1	23
170	Tunnel detection at Yuma Proving Ground, Arizona, USA [Part 1: 2D full-waveform inversion experiment. <i>Geophysics</i> , 2019 , 84, B95-B105	3.1	22
169	SeisFlowsFlexible waveform inversion software. <i>Computers and Geosciences</i> , 2018 , 115, 88-95	4.5	25
168	Effects of induced stress on seismic forward modelling and inversion. <i>Geophysical Journal International</i> , 2018 , 213, 851-867	2.6	9
167	3D elastic full-waveform inversion of surface waves in the presence of irregular topography using an envelope-based misfit function. <i>Geophysics</i> , 2018 , 83, R1-R11	3.1	33
166	A practical approach to seismic imaging of tunnels using 3D full-waveform inversion. <i>Geophysics</i> , 2018 , 1-53	3.1	1
165	Quantifying the sensitivity of post-glacial sea level change to laterally varying viscosity. <i>Geophysical Journal International</i> , 2018 , 214, 1324-1363	2.6	18
164	Spectral-infinite-element simulations of gravity anomalies. <i>Geophysical Journal International</i> , 2018 , 215, 1098-1117	2.6	14
163	2018 ,		12
162	Planned Products of the Mars Structure Service for the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017 , 211, 611-650	7.5	69

161	Lithospheric foundering and underthrusting imaged beneath Tibet. <i>Nature Communications</i> , 2017 , 8, 15659	17.4	61
160	Simulations of Seismic Wave Propagation on Mars. <i>Space Science Reviews</i> , 2017 , 211, 571-594	7.5	15
159	Anisotropic full-waveform inversion with tilt-angle recovery. <i>Geophysics</i> , 2017 , 82, R135-R151	3.1	17
158	Automated time-window selection based on machine learning for full-waveform inversion 2017 ,		7
157	Near-surface seismic imaging of tunnels using 3D elastic full-waveform inversion 2017 ,		1
156	Preparing for InSight: An Invitation to Participate in a Blind Test for Martian Seismicity. <i>Seismological Research Letters</i> , 2017 , 88, 1290-1302	3	32
155	Radial anisotropy of the North American upper mantle based on adjoint tomography with USArray. <i>Geophysical Journal International</i> , 2017 , 211, 349-377	2.6	33
154	Analysis of Regolith Properties Using Seismic Signals Generated by InSight® HP3 Penetrator. <i>Space Science Reviews</i> , 2017 , 211, 315-337	7.5	23
153	Tidal tomography constrains Earth's deep-mantle buoyancy. <i>Nature</i> , 2017 , 551, 321-326	50.4	93
152	Forward and inverse modelling of post-seismic deformation. <i>Geophysical Journal International</i> , 2017 , 208, 845-876	2.6	8
151	Anelasticity across seismic to tidal timescales: a self-consistent approach. <i>Geophysical Journal International</i> , 2017 , 208, 368-384	2.6	7
150	Multi-component 3D Elastic Full Waveform Inversion Using Surface and Body Waves for Detecting Near Surface Anomalies 2017 ,		2
149	Data and Workflow Management for Exascale Global Adjoint Tomography 2017 , 279-306		2
148	Spectral-element based 3D elastic full-waveform inversion of surface waves in the presence of complex topography using an envelope-based misfit function 2016 ,		4
147	Seismic waveform inversion best practices: regional, global and exploration test cases. <i>Geophysical Journal International</i> , 2016 , 206, 1864-1889	2.6	46
146	Double-difference adjoint seismic tomography. <i>Geophysical Journal International</i> , 2016 , 206, 1599-1618	2.6	27
145	On the choice of material parameters for elastic waveform inversion 2016 ,		2
144	A 1.8 trillion degrees-of-freedom, 1.24 petaflops global seismic wave simulation on the K computer. <i>International Journal of High Performance Computing Applications</i> , 2016 , 30, 411-422	1.8	15

143	Global adjoint tomography: first-generation model. <i>Geophysical Journal International</i> , 2016 , 207, 1739-1766	2.6	125
142	An Adaptable Seismic Data Format. <i>Geophysical Journal International</i> , 2016 , 207, 1003-1011	2.6	30
141	Anelastic sensitivity kernels with parsimonious storage for adjoint tomography and full waveform inversion. <i>Geophysical Journal International</i> , 2016 , 206, 1467-1478	2.6	35
140	Wave Propagation in Porous Media Saturated with Two Fluids. <i>Transport in Porous Media</i> , 2015 , 107, 49-63	3.1	6
139	A normal mode treatment of semi-diurnal body tides on an aspherical, rotating and anelastic Earth. <i>Geophysical Journal International</i> , 2015 , 202, 1392-1406	2.6	15
138	Multiparameter adjoint tomography of the crust and upper mantle beneath East Asia: 1. Model construction and comparisons. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 1762-1786	3.6	76
137	Computational efficiency of full waveform inversion algorithms 2015 ,		1
136	Anisotropic imaging with fast recovery of tilt and azimuthal angles 2015 ,		2
135	Mantle-driven uplift of Hangai Dome: New seismic constraints from adjoint tomography. <i>Geophysical Research Letters</i> , 2015 , 42, 6967-6974	4.9	30
134	Synthetic free-oscillation spectra: an appraisal of various mode-coupling methods. <i>Geophysical Journal International</i> , 2015 , 203, 1179-1192	2.6	12
133	Theory and Observations - Forward Modeling and Synthetic Seismograms, 3D Numerical Methods 2015 , 231-251		
132	Unified Structural Representation of the southern California crust and upper mantle. <i>Earth and Planetary Science Letters</i> , 2015 , 415, 1-15	5.3	107
131	Seismic structure of the European upper mantle based on adjoint tomography. <i>Geophysical Journal International</i> , 2015 , 201, 18-52	2.6	111
130	Strategies in Adjoint Tomography 2015 , 1943-2001		2
129	Toward real-time regional earthquake simulation II: Real-time Online earthquake Simulation (ROS) of Taiwan earthquakes. <i>Journal of Asian Earth Sciences</i> , 2014 , 87, 56-68	2.8	9
128	Crustal anisotropy in a subduction zone forearc: Northern Cascadia. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 7058-7078	3.6	12
127	Spectral-Element Simulations of Seismic Waves Generated by the 2009 L'Aquila Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2014 , 104, 73-94	2.3	27
126	FULL WAVEFORM INVERSION FOR TIME-DISTANCE HELIOSEISMOLOGY. <i>Astrophysical Journal</i> , 2014 , 784, 69	4.7	9

125	Sensitivity kernels for viscoelastic loading based on adjoint methods. <i>Geophysical Journal International</i> , 2014 , 196, 34-77	2.6	18
124	Overview: Particle Acceleration by Waves and Turbulence. <i>Geophysical Monograph Series</i> , 2013 , 107-108	1.1	1
123	Seismic attenuation beneath Europe and the North Atlantic: Implications for water in the mantle. <i>Earth and Planetary Science Letters</i> , 2013 , 381, 1-11	5.3	54
122	3D coupled acoustic-elastic migration with topography and bathymetry based on spectral-element and adjoint methods. <i>Geophysics</i> , 2013 , 78, S193-S202	3.1	34
121	Mapping tectonic deformation in the crust and upper mantle beneath Europe and the North Atlantic Ocean. <i>Science</i> , 2013 , 341, 871-5	33.3	63
120	Strategies in Adjoint Tomography 2013 , 1-52		9
119	Rapid Estimation of Damage to Tall Buildings Using Near Real-Time Earthquake and Archived Structural Simulations. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 2646-2666	2.3	3
118	Forward and adjoint simulations of seismic wave propagation on emerging large-scale GPU architectures 2012 ,		18
117	Seismic wavespeed images across the Iapetus and Tornquist suture zones. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	35
116	Structure of the European upper mantle revealed by adjoint tomography. <i>Nature Geoscience</i> , 2012 , 5, 493-498	18.3	199
115	DETECTABLE SEISMIC CONSEQUENCES OF THE INTERACTION OF A PRIMORDIAL BLACK HOLE WITH EARTH. <i>Astrophysical Journal</i> , 2012 , 751, 16	4.7	8
114	Application of an elastoplastic spectral-element method to 3D slope stability analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 91, 1-26	2.4	27
113	Simulation of multistage excavation based on a 3D spectral-element method. <i>Computers and Structures</i> , 2012 , 100-101, 54-69	4.5	13
112	Seismic probes of solar interior magnetic structure. <i>Physical Review Letters</i> , 2012 , 109, 101101	7.4	14
111	3D elastic migration with topography based on spectral-element and adjoint methods 2012 ,		4
110	THE ADJOINT METHOD APPLIED TO TIME-DISTANCE HELIOSEISMOLOGY. <i>Astrophysical Journal</i> , 2011 , 738, 100	4.7	30
109	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
108	Acoustic, elastic and poroelastic simulations of CO ₂ sequestration crosswell monitoring based on spectral-element and adjoint methods. <i>Geophysical Journal International</i> , 2011 , 185, 955-966	2.6	13

107	Adjoint centroid-moment tensor inversions. <i>Geophysical Journal International</i> , 2011 , 186, 264-278	2.6	46
106	Forward and adjoint simulations of seismic wave propagation on fully unstructured hexahedral meshes. <i>Geophysical Journal International</i> , 2011 , 186, 721-739	2.6	200
105	Antipodal focusing of seismic waves due to large meteorite impacts on Earth. <i>Geophysical Journal International</i> , 2011 , 187, 529-537	2.6	23
104	Surface wave sensitivity: mode summation versus adjoint SEM. <i>Geophysical Journal International</i> , 2011 , 187, 1560-1576	2.6	12
103	Seismic tomography of the southern California crust based on spectral-element and adjoint methods. <i>Geophysical Journal International</i> , 2010 , 180, 433-462	2.6	250
102	Noise cross-correlation sensitivity kernels. <i>Geophysical Journal International</i> , 2010 , 183, 791-819	2.6	92
101	Near real-time simulations of global CMT earthquakes. <i>Geophysical Journal International</i> , 2010 , 183, 381-389	2.6	45
100	Effects of 3D Attenuation on Seismic Wave Amplitude and Phase Measurements. <i>Bulletin of the Seismological Society of America</i> , 2010 , 100, 1241-1251	2.3	32
99	On the connection between artifact filtering in reverse-time migration and adjoint tomography. <i>Geophysics</i> , 2010 , 75, S219-S223	3.1	38
98	Dinuclear copper(I) benzoato quinoline complexes as intermediates in the copper-quinoline decarboxylation reaction. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010 , 108, 295-303		5
97	Adjoint tomography of the southern California crust. <i>Science</i> , 2009 , 325, 988-92	33.3	319
96	An automated time-window selection algorithm for seismic tomography. <i>Geophysical Journal International</i> , 2009 , 178, 257-281	2.6	102
95	Finite-frequency kernels for wave propagation in porous media based upon adjoint methods. <i>Geophysical Journal International</i> , 2009 , 179, 1148-1168	2.6	24
94	Principal component analysis of anisotropic finite-frequency sensitivity kernels. <i>Geophysical Journal International</i> , 2009 , 179, 1186-1198	2.6	23
93	Imaging lateral heterogeneity in the northern Apennines from time reversal of reflected surface waves. <i>Geophysical Journal International</i> , 2009 , 177, 543-554	2.6	25
92	Modeling 3-D wave propagation and finite slip for the 1998 Balleny Islands earthquake. <i>Journal of Geophysical Research</i> , 2009 , 114,		25
91	Science and Engineering in the Petascale Era. <i>Computing in Science and Engineering</i> , 2009 , 11, 28-37	1.5	2
90	Seismic modeling and imaging based upon spectral-element and adjoint methods. <i>The Leading Edge</i> , 2009 , 28, 568-574	1	29

89	Elastic imaging and time-lapse migration based on adjoint methods. <i>Geophysics</i> , 2009 , 74, WCA167-WCA177	3.7	59
88	Effects of Topography on Seismic-Wave Propagation: An Example from Northern Taiwan. <i>Bulletin of the Seismological Society of America</i> , 2009 , 99, 314-325	2.3	90
87	Effects of Realistic Surface Topography on Seismic Ground Motion in the Yangminshan Region of Taiwan Based Upon the Spectral-Element Method and LiDAR DTM. <i>Bulletin of the Seismological Society of America</i> , 2009 , 99, 681-693	2.3	80
86	Tsunami generation by ocean floor rupture front propagation: Hamiltonian description. <i>Natural Hazards and Earth System Sciences</i> , 2009 , 9, 217-227	3.9	1
85	Finite-frequency sensitivity kernels for global seismic wave propagation based upon adjoint methods. <i>Geophysical Journal International</i> , 2008 , 174, 265-286	2.6	103
84	Spectral-element simulations of wave propagation in porous media. <i>Geophysical Journal International</i> , 2008 , 175, 301-345	2.6	76
83	CUBIT and Seismic Wave Propagation Based Upon the Spectral-Element Method: An Advanced Unstructured Mesher for Complex 3D Geological Media 2008 , 579-597		22
82	Time reversal location of glacial earthquakes. <i>Journal of Geophysical Research</i> , 2008 , 113,		51
81	2008 ,		24
80	Finite-Frequency SKS Splitting: Measurement and Sensitivity Kernels. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 1797-1810	2.3	26
79	Three-Dimensional Simulations of Seismic-Wave Propagation in the Taipei Basin with Realistic Topography Based upon the Spectral-Element Method. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 253-264	2.3	73
78	Waveform modeling of the slab beneath Japan. <i>Journal of Geophysical Research</i> , 2007 , 112,		33
77	Finite-frequency tomography using adjoint methods-Methodology and examples using membrane surface waves. <i>Geophysical Journal International</i> , 2007 , 168, 1105-1129	2.6	121
76	Theoretical and numerical investigations of global and regional seismic wave propagation in weakly anisotropic earth models. <i>Geophysical Journal International</i> , 2007 , 168, 1130-1152	2.6	28
75	Finite-frequency sensitivity of surface waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , 2007 , 168, 1153-1174	2.6	67
74	Finite-frequency sensitivity of body waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , 2007 , 171, 368-389	2.6	51
73	Theory and Observations I-Forward Modeling and Synthetic Seismograms: 3-D Numerical Methods 2007 , 191-217		3
72	A BASIC INTRODUCTION TO QUANTITATIVE SEISMIC HAZARD ASSESSMENT. <i>Journal of Earthquake and Tsunami</i> , 2007 , 01, 99-118	1.1	1

71	Finite-Frequency Kernels Based on Adjoint Methods. <i>Bulletin of the Seismological Society of America</i> , 2006 , 96, 2383-2397	2.3	178
70	Case Studies of Damage to Tall Steel Moment-Frame Buildings in Southern California during Large San Andreas Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2006 , 96, 1523-1537	2.3	40
69	Performance of Two 18-Story Steel Moment-Frame Buildings in Southern California during Two Large Simulated San Andreas Earthquakes. <i>Earthquake Spectra</i> , 2006 , 22, 1035-1061	3.4	26
68	A Structural VP Model of the Salton Trough, California, and Its Implications for Seismic Hazard. <i>Bulletin of the Seismological Society of America</i> , 2006 , 96, 1882-1896	2.3	10
67	GIA-induced secular variations in the Earth's long wavelength gravity field: Influence of 3-D viscosity variations. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 322-327	5.3	8
66	Influence of lithospheric thickness variations on 3-D crustal velocities due to glacial isostatic adjustment. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	35
65	The spectral-element method in seismology. <i>Geophysical Monograph Series</i> , 2005 , 205-227	1.1	60
64	Rayleigh-Wave Multipathing along the West Coast of North America. <i>Bulletin of the Seismological Society of America</i> , 2005 , 95, 2115-2124	2.3	25
63	Three-dimensional structure of the African superplume from waveform modelling. <i>Geophysical Journal International</i> , 2005 , 161, 283-294	2.6	67
62	Glacial isostatic adjustment on 3-D Earth models: a finite-volume formulation. <i>Geophysical Journal International</i> , 2005 , 161, 421-444	2.6	104
61	Resolution of regional seismic models: Squeezing the Iceland anomaly. <i>Geophysical Journal International</i> , 2005 , 161, 373-386	2.6	20
60	Earth's free oscillations excited by the 26 December 2004 Sumatra-Andaman earthquake. <i>Science</i> , 2005 , 308, 1139-44	33.3	178
59	Computations of Global Seismic Wave Propagation in Three Dimensional Earth Model 2005 , 434-443		2
58	Spectral-Element Moment Tensor Inversions for Earthquakes in Southern California. <i>Bulletin of the Seismological Society of America</i> , 2004 , 94, 1748-1761	2.3	77
57	Analysis of strong scattering at the micro-scale. <i>Journal of the Acoustical Society of America</i> , 2004 , 115, 1006-1011	2.2	29
56	Seismic tomography, adjoint methods, time reversal and banana-doughnut kernels. <i>Geophysical Journal International</i> , 2004 , 160, 195-216	2.6	607
55	Simulations of Ground Motion in the Los Angeles Basin Based upon the Spectral-Element Method. <i>Bulletin of the Seismological Society of America</i> , 2004 , 94, 187-206	2.3	227
54	The global seismographic network surpasses its design goal. <i>Eos</i> , 2004 , 85, 225	1.5	93

53	Constraining large-scale mantle heterogeneity using mantle and inner-core sensitive normal modes. <i>Physics of the Earth and Planetary Interiors</i> , 2004 , 146, 113-124	2.3	106
52	A perfectly matched layer absorbing boundary condition for the second-order seismic wave equation. <i>Geophysical Journal International</i> , 2003 , 154, 146-153	2.6	239
51	Supercomputing moves to universities and makes possible new ways to organize computational research. <i>Eos</i> , 2003 , 84, 30	1.5	2
50	A 14.6 billion degrees of freedom, 5 teraflops, 2.5 terabyte earthquake simulation on the Earth Simulator 2003 ,		55
49	Broadband modeling of the 2002 Denali fault earthquake on the Earth Simulator. <i>Physics of the Earth and Planetary Interiors</i> , 2003 , 139, 305-313	2.3	44
48	Spectral-element simulations of global seismic wave propagation-I. Validation. <i>Geophysical Journal International</i> , 2002 , 149, 390-412	2.6	577
47	Spectral-element simulations of global seismic wave propagation-II. Three-dimensional models, oceans, rotation and self-gravitation. <i>Geophysical Journal International</i> , 2002 , 150, 303-318	2.6	376
46	The spectral-element method, Beowulf computing, and global seismology. <i>Science</i> , 2002 , 298, 1737-42	33.3	156
45	Present-day secular variations in the low-degree harmonics of the geopotential: Sensitivity analysis on spherically symmetric Earth models. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 18-1-ETG 18-10		11
44	Joint inversion of normal mode and body wave data for inner core anisotropy 1. Laterally homogeneous anisotropy. <i>Journal of Geophysical Research</i> , 2002 , 107, ESE 20-1-ESE 20-16		35
43	Joint inversion of normal mode and body wave data for inner core anisotropy 2. Possible complexities. <i>Journal of Geophysical Research</i> , 2002 , 107, ESE 21-1-ESE 21-17		30
42	Effects of crust and mantle heterogeneity on PP/P and SS/S amplitude ratios. <i>Geophysical Research Letters</i> , 2002 , 29, 72-1-72-4	4.9	28
41	Inner-Core Anisotropy and Rotation. <i>Annual Review of Earth and Planetary Sciences</i> , 2001 , 29, 47-69	15.3	77
40	Even-degree lateral variations in the Earth's mantle constrained by free oscillations and the free-air gravity anomaly. <i>Geophysical Journal International</i> , 2001 , 145, 77-96	2.6	76
39	Modeling of seismic wave propagation at the scale of the Earth on a large Beowulf 2001 ,		4
38	WAVE PROPAGATION IN 2-D ELASTIC MEDIA USING A SPECTRAL ELEMENT METHOD WITH TRIANGLES AND QUADRANGLES. <i>Journal of Computational Acoustics</i> , 2001 , 09, 703-718		79
37	Surface loading of a viscoelastic planet--III. Aspherical models. <i>Geophysical Journal International</i> , 2000 , 140, 425-441	2.6	25
36	Simulation of anisotropic wave propagation based upon a spectral element method. <i>Geophysics</i> , 2000 , 65, 1251-1260	3.1	146

35	Wave propagation near a fluid-solid interface: A spectral-element approach. <i>Geophysics</i> , 2000 , 65, 623-631		139
34	The spectral element method for three-dimensional seismic wave propagation 2000 ,		1
33	On Maxwell singularities in postglacial rebound. <i>Geophysical Journal International</i> , 1999 , 136, 492-498	2.6	14
32	Surface loading of a viscoelastic earth--I. General theory. <i>Geophysical Journal International</i> , 1999 , 137, 847-855	2.6	52
31	Surface loading of a viscoelastic earth--II. Spherical models. <i>Geophysical Journal International</i> , 1999 , 137, 856-872	2.6	26
30	Introduction to the spectral element method for three-dimensional seismic wave propagation. <i>Geophysical Journal International</i> , 1999 , 139, 806-822	2.6	829
29	Normal-mode and free-Air gravity constraints on lateral variations in velocity and density of Earth's mantle. <i>Science</i> , 1999 , 285, 1231-6	33.3	386
28	Theoretical Global Seismology 1999 ,		124
27	Effects of slight anisotropy on surface waves. <i>Geophysical Journal International</i> , 1998 , 132, 654-666	2.6	44
26	Is there a first-order discontinuity in the lowermost mantle?. <i>Earth and Planetary Science Letters</i> , 1998 , 160, 343-351	5.3	17
25	Global and regional surface-wave inversions: A spherical-spline parameterization. <i>Geophysical Research Letters</i> , 1998 , 25, 207-210	4.9	24
24	GEOSCIENCE:Enhanced: Two Views of the Deep Mantle 1998 , 281, 655-656		5
23	A new analysis of the great 1970 Colombia earthquake and its isotropic component. <i>Journal of Geophysical Research</i> , 1997 , 102, 20423-20434		15
22	Measurements and global models of surface wave propagation. <i>Journal of Geophysical Research</i> , 1997 , 102, 8137-8157		311
21	Normal-mode constraints on the structure of the Earth. <i>Journal of Geophysical Research</i> , 1996 , 101, 20053-20082		24
20	Uniformly valid body-wave ray theory. <i>Geophysical Journal International</i> , 1996 , 127, 461-491	2.6	28
19	Normal-mode splitting due to inner-core anisotropy. <i>Geophysical Journal International</i> , 1995 , 121, 963-968	6.86	30
18	Toroidal splitting observations from the Great 1994 Bolivia and Kuril Islands Earthquakes. <i>Geophysical Research Letters</i> , 1995 , 22, 2297-2300	4.9	28

17	Self-induced fracture generation in zircon. <i>Journal of Geophysical Research</i> , 1995 , 100, 17753-17770		69
16	Seismology of the core. <i>Reviews of Geophysics</i> , 1995 , 33, 329	23.1	1
15	Surface-Wave Propagation On A Rotating, Anisotropic Earth. <i>Geophysical Journal International</i> , 1994 , 117, 141-152	2.6	6
14	A Coupled Local-Mode Analysis of Surface-Wave Propagation In A Laterally Heterogeneous Waveguide. <i>Geophysical Journal International</i> , 1994 , 117, 153-161	2.6	16
13	Uniformly valid asymptotic wave propagation based upon variational principles. <i>Wave Motion</i> , 1993 , 17, 185-196	1.8	2
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