

# Jeroen Tromp

## List of Publications by Citations

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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	Introduction to the spectral element method for three-dimensional seismic wave propagation. <i>Geophysical Journal International</i> , <b>1999</b> , 139, 806-822	2.6	829
195	Seismic tomography, adjoint methods, time reversal and banana-doughnut kernels. <i>Geophysical Journal International</i> , <b>2004</b> , 160, 195-216	2.6	607
194	Spectral-element simulations of global seismic wave propagation-I. Validation. <i>Geophysical Journal International</i> , <b>2002</b> , 149, 390-412	2.6	577
193	Normal-mode and free-Air gravity constraints on lateral variations in velocity and density of Earth's mantle. <i>Science</i> , <b>1999</b> , 285, 1231-6	33.3	386
192	Spectral-element simulations of global seismic wave propagation-II. Three-dimensional models, oceans, rotation and self-gravitation. <i>Geophysical Journal International</i> , <b>2002</b> , 150, 303-318	2.6	376
191	Adjoint tomography of the southern California crust. <i>Science</i> , <b>2009</b> , 325, 988-92	33.3	319
190	Measurements and global models of surface wave propagation. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 8137-8157		311
189	Seismic tomography of the southern California crust based on spectral-element and adjoint methods. <i>Geophysical Journal International</i> , <b>2010</b> , 180, 433-462	2.6	250
188	A perfectly matched layer absorbing boundary condition for the second-order seismic wave equation. <i>Geophysical Journal International</i> , <b>2003</b> , 154, 146-153	2.6	239
187	Misfit functions for full waveform inversion based on instantaneous phase and envelope measurements. <i>Geophysical Journal International</i> , <b>2011</b> , 185, 845-870	2.6	231
186	Simulations of Ground Motion in the Los Angeles Basin Based upon the Spectral-Element Method. <i>Bulletin of the Seismological Society of America</i> , <b>2004</b> , 94, 187-206	2.3	227
185	Forward and adjoint simulations of seismic wave propagation on fully unstructured hexahedral meshes. <i>Geophysical Journal International</i> , <b>2011</b> , 186, 721-739	2.6	200
184	Structure of the European upper mantle revealed by adjoint tomography. <i>Nature Geoscience</i> , <b>2012</b> , 5, 493-498	18.3	199
183	Support for anisotropy of the Earth's inner core from free oscillations. <i>Nature</i> , <b>1993</b> , 366, 678-681	50.4	193
182	Finite-Frequency Kernels Based on Adjoint Methods. <i>Bulletin of the Seismological Society of America</i> , <b>2006</b> , 96, 2383-2397	2.3	178
181	Earth's free oscillations excited by the 26 December 2004 Sumatra-Andaman earthquake. <i>Science</i> , <b>2005</b> , 308, 1139-44	33.3	178
180	The spectral-element method, Beowulf computing, and global seismology. <i>Science</i> , <b>2002</b> , 298, 1737-42	33.3	156

179	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , <b>2020</b> , 13, 183-189	18.3	155
178	Simulation of anisotropic wave propagation based upon a spectral element method. <i>Geophysics</i> , <b>2000</b> , 65, 1251-1260	3.1	146
177	SEIS: Insight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , <b>2019</b> , 215, 12	7.5	143
176	Wave propagation near a fluid-solid interface: A spectral-element approach. <i>Geophysics</i> , <b>2000</b> , 65, 623-631	3.1	139
175	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , <b>2020</b> , 13, 213-220	18.3	129
174	Global adjoint tomography: first-generation model. <i>Geophysical Journal International</i> , <b>2016</b> , 207, 1739-1766	2.6	125
173	Theoretical Global Seismology <b>1999</b> ,		124
172	Finite-frequency tomography using adjoint methods-Methodology and examples using membrane surface waves. <i>Geophysical Journal International</i> , <b>2007</b> , 168, 1105-1129	2.6	121
171	Seismic structure of the European upper mantle based on adjoint tomography. <i>Geophysical Journal International</i> , <b>2015</b> , 201, 18-52	2.6	111
170	Unified Structural Representation of the southern California crust and upper mantle. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 415, 1-15	5.3	107
169	Constraining large-scale mantle heterogeneity using mantle and inner-core sensitive normal modes. <i>Physics of the Earth and Planetary Interiors</i> , <b>2004</b> , 146, 113-124	2.3	106
168	Glacial isostatic adjustment on 3-D Earth models: a finite-volume formulation. <i>Geophysical Journal International</i> , <b>2005</b> , 161, 421-444	2.6	104
167	Finite-frequency sensitivity kernels for global seismic wave propagation based upon adjoint methods. <i>Geophysical Journal International</i> , <b>2008</b> , 174, 265-286	2.6	103
166	An automated time-window selection algorithm for seismic tomography. <i>Geophysical Journal International</i> , <b>2009</b> , 178, 257-281	2.6	102
165	Normal-mode constraints on the structure of the Earth. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 20053-20082	2.4	94
164	Tidal tomography constrains Earth's deep-mantle buoyancy. <i>Nature</i> , <b>2017</b> , 551, 321-326	50.4	93
163	The global seismographic network surpasses its design goal. <i>Eos</i> , <b>2004</b> , 85, 225	1.5	93
162	Noise cross-correlation sensitivity kernels. <i>Geophysical Journal International</i> , <b>2010</b> , 183, 791-819	2.6	92

161	Effects of Topography on Seismic-Wave Propagation: An Example from Northern Taiwan. <i>Bulletin of the Seismological Society of America</i> , <b>2009</b> , 99, 314-325	2.3	90
160	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> , <b>2009</b> , 99, 681-693	2.3	80
159	WAVE PROPAGATION IN 2-D ELASTIC MEDIA USING A SPECTRAL ELEMENT METHOD WITH TRIANGLES AND QUADRANGLES. <i>Journal of Computational Acoustics</i> , <b>2001</b> , 09, 703-718		79
158	Spectral-Element Moment Tensor Inversions for Earthquakes in Southern California. <i>Bulletin of the Seismological Society of America</i> , <b>2004</b> , 94, 1748-1761	2.3	77
157	Inner-Core Anisotropy and Rotation. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2001</b> , 29, 47-69	15.3	77
156	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> , <b>2015</b> , 120, 1762-1786	3.6	76
155	Spectral-element simulations of wave propagation in porous media. <i>Geophysical Journal International</i> , <b>2008</b> , 175, 301-345	2.6	76
154	Even-degree lateral variations in the Earth's mantle constrained by free oscillations and the free-air gravity anomaly. <i>Geophysical Journal International</i> , <b>2001</b> , 145, 77-96	2.6	76
153	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> , <b>2008</b> , 98, 253-264	2.3	73
152	Variational principles for surface wave propagation on a laterally heterogeneous Earth--II. Frequency-domain JWKB theory. <i>Geophysical Journal International</i> , <b>1992</b> , 109, 599-619	2.6	71
151	Planned Products of the Mars Structure Service for the InSight Mission to Mars. <i>Space Science Reviews</i> , <b>2017</b> , 211, 611-650	7.5	69
150	Self-induced fracture generation in zircon. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 17753-17770		69
149	Finite-frequency sensitivity of surface waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , <b>2007</b> , 168, 1153-1174	2.6	67
148	Three-dimensional structure of the African superplume from waveform modelling. <i>Geophysical Journal International</i> , <b>2005</b> , 161, 283-294	2.6	67
147	Mapping tectonic deformation in the crust and upper mantle beneath Europe and the North Atlantic Ocean. <i>Science</i> , <b>2013</b> , 341, 871-5	33.3	63
146	Lithospheric foundering and underthrusting imaged beneath Tibet. <i>Nature Communications</i> , <b>2017</b> , 8, 15659	17.4	61
145	The spectral-element method in seismology. <i>Geophysical Monograph Series</i> , <b>2005</b> , 205-227	1.1	60
144	Elastic imaging and time-lapse migration based on adjoint methods. <i>Geophysics</i> , <b>2009</b> , 74, WCA167-WCA177	3.7	59

143	A 14.6 billion degrees of freedom, 5 teraflops, 2.5 terabyte earthquake simulation on the Earth Simulator <b>2003</b> ,		55
142	Seismic attenuation beneath Europe and the North Atlantic: Implications for water in the mantle. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 381, 1-11	5.3	54
141	Surface loading of a viscoelastic earth--I. General theory. <i>Geophysical Journal International</i> , <b>1999</b> , 137, 847-855	2.6	52
140	Time reversal location of glacial earthquakes. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		51
139	Finite-frequency sensitivity of body waves to anisotropy based upon adjoint methods. <i>Geophysical Journal International</i> , <b>2007</b> , 171, 368-389	2.6	51
138	Seismic waveform inversion best practices: regional, global and exploration test cases. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 1864-1889	2.6	46
137	Adjoint centroid-moment tensor inversions. <i>Geophysical Journal International</i> , <b>2011</b> , 186, 264-278	2.6	46
136	Near real-time simulations of global CMT earthquakes. <i>Geophysical Journal International</i> , <b>2010</b> , 183, 381-389		45
135	Effects of slight anisotropy on surface waves. <i>Geophysical Journal International</i> , <b>1998</b> , 132, 654-666	2.6	44
134	Broadband modeling of the 2002 Denali fault earthquake on the Earth Simulator. <i>Physics of the Earth and Planetary Interiors</i> , <b>2003</b> , 139, 305-313	2.3	44
133	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> , <b>2006</b> , 96, 1523-1537	2.3	40
132	On the connection between artifact filtering in reverse-time migration and adjoint tomography. <i>Geophysics</i> , <b>2010</b> , 75, S219-S223	3.1	38
131	Global adjoint tomography model GLAD-M25. <i>Geophysical Journal International</i> , <b>2020</b> , 223, 1-21	2.6	35
130	Seismic wavespeed images across the Iapetus and Tornquist suture zones. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	35
129	Influence of lithospheric thickness variations on 3-D crustal velocities due to glacial isostatic adjustment. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	35
128	Joint inversion of normal mode and body wave data for inner core anisotropy 1. Laterally homogeneous anisotropy. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ESE 20-1-ESE 20-16		35
127	Anelastic sensitivity kernels with parsimonious storage for adjoint tomography and full waveform inversion. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 1467-1478	2.6	35
126	3D coupled acoustic-elastic migration with topography and bathymetry based on spectral-element and adjoint methods. <i>Geophysics</i> , <b>2013</b> , 78, S193-S202	3.1	34

125	3D elastic full-waveform inversion of surface waves in the presence of irregular topography using an envelope-based misfit function. <i>Geophysics</i> , <b>2018</b> , 83, R1-R11	3.1	33
124	Radial anisotropy of the North American upper mantle based on adjoint tomography with USArray. <i>Geophysical Journal International</i> , <b>2017</b> , 211, 349-377	2.6	33
123	Waveform modeling of the slab beneath Japan. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		33
122	Preparing for InSight: An Invitation to Participate in a Blind Test for Martian Seismicity. <i>Seismological Research Letters</i> , <b>2017</b> , 88, 1290-1302	3	32
121	Effects of 3D Attenuation on Seismic Wave Amplitude and Phase Measurements. <i>Bulletin of the Seismological Society of America</i> , <b>2010</b> , 100, 1241-1251	2.3	32
120	Variational principles for surface wave propagation on a laterally heterogeneous Earth--I. Time-domain JWKB theory. <i>Geophysical Journal International</i> , <b>1992</b> , 109, 581-598	2.6	31
119	Mantle-driven uplift of Hangai Dome: New seismic constraints from adjoint tomography. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6967-6974	4.9	30
118	THE ADJOINT METHOD APPLIED TO TIME-DISTANCE HELIOSEISMOLOGY. <i>Astrophysical Journal</i> , <b>2011</b> , 738, 100	4.7	30
117	Joint inversion of normal mode and body wave data for inner core anisotropy 2. Possible complexities. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ESE 21-1-ESE 21-17		30
116	Normal-mode splitting due to inner-core anisotropy. <i>Geophysical Journal International</i> , <b>1995</b> , 121, 963-968		30
115	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125,	3.6	30
114	Seismic wavefield imaging of Earth's interior across scales. <i>Nature Reviews Earth &amp; Environment</i> , <b>2020</b> , 1, 40-53	30.2	30
113	An Adaptable Seismic Data Format. <i>Geophysical Journal International</i> , <b>2016</b> , 207, 1003-1011	2.6	30
112	Seismic modeling and imaging based upon spectral-element and adjoint methods. <i>The Leading Edge</i> , <b>2009</b> , 28, 568-574	1	29
111	Analysis of strong scattering at the micro-scale. <i>Journal of the Acoustical Society of America</i> , <b>2004</b> , 115, 1006-1011	2.2	29
110	Theoretical and numerical investigations of global and regional seismic wave propagation in weakly anisotropic earth models. <i>Geophysical Journal International</i> , <b>2007</b> , 168, 1130-1152	2.6	28
109	Effects of crust and mantle heterogeneity on PP/P and SS/S amplitude ratios. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 72-1-72-4	4.9	28
108	Toroidal splitting observations from the Great 1994 Bolivia and Kuril Islands Earthquakes. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 2297-2300	4.9	28

107	Uniformly valid body-wave ray theory. <i>Geophysical Journal International</i> , <b>1996</b> , 127, 461-491	2.6	28
106	Double-difference adjoint seismic tomography. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 1599-1618	2.6	27
105	Spectral-Element Simulations of Seismic Waves Generated by the 2009 L'Aquila Earthquake. <i>Bulletin of the Seismological Society of America</i> , <b>2014</b> , 104, 73-94	2.3	27
104	Application of an elastoplastic spectral-element method to 3D slope stability analysis. <i>International Journal for Numerical Methods in Engineering</i> , <b>2012</b> , 91, 1-26	2.4	27
103	Finite-Frequency SKS Splitting: Measurement and Sensitivity Kernels. <i>Bulletin of the Seismological Society of America</i> , <b>2008</b> , 98, 1797-1810	2.3	26
102	Performance of Two 18-Story Steel Moment-Frame Buildings in Southern California during Two Large Simulated San Andreas Earthquakes. <i>Earthquake Spectra</i> , <b>2006</b> , 22, 1035-1061	3.4	26
101	Surface loading of a viscoelastic earth--II. Spherical models. <i>Geophysical Journal International</i> , <b>1999</b> , 137, 856-872	2.6	26
100	Variational Principles For Surface Wave Propagation On A Laterally Heterogeneous Earth-III. Potential Representation. <i>Geophysical Journal International</i> , <b>1993</b> , 112, 195-209	2.6	26
99	Free oscillations of a spherical anelastic earth. <i>Geophysical Journal International</i> , <b>1990</b> , 103, 707-723	2.6	26
98	SeisFlowsFlexible waveform inversion software. <i>Computers and Geosciences</i> , <b>2018</b> , 115, 88-95	4.5	25
97	Imaging lateral heterogeneity in the northern Apennines from time reversal of reflected surface waves. <i>Geophysical Journal International</i> , <b>2009</b> , 177, 543-554	2.6	25
96	Modeling 3-D wave propagation and finite slip for the 1998 Balleny Islands earthquake. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		25
95	Rayleigh-Wave Multipathing along the West Coast of North America. <i>Bulletin of the Seismological Society of America</i> , <b>2005</b> , 95, 2115-2124	2.3	25
94	Surface loading of a viscoelastic planet--III. Aspherical models. <i>Geophysical Journal International</i> , <b>2000</b> , 140, 425-441	2.6	25
93	Finite-frequency kernels for wave propagation in porous media based upon adjoint methods. <i>Geophysical Journal International</i> , <b>2009</b> , 179, 1148-1168	2.6	24
92	<b>2008</b> ,		24
91	Global and regional surface-wave inversions: A spherical-spline parameterization. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 207-210	4.9	24
90	Analysis of Regolith Properties Using Seismic Signals Generated by InSight HP3 Penetrator. <i>Space Science Reviews</i> , <b>2017</b> , 211, 315-337	7.5	23

89	Antipodal focusing of seismic waves due to large meteorite impacts on Earth. <i>Geophysical Journal International</i> , <b>2011</b> , 187, 529-537	2.6	23
88	Principal component analysis of anisotropic finite-frequency sensitivity kernels. <i>Geophysical Journal International</i> , <b>2009</b> , 179, 1186-1198	2.6	23
87	Tunnel detection at Yuma Proving Ground, Arizona, USA [Part 2: 3D full-waveform inversion experiments. <i>Geophysics</i> , <b>2019</b> , 84, B107-B120	3.1	23
86	CUBIT and Seismic Wave Propagation Based Upon the Spectral-Element Method: An Advanced Unstructured Mesher for Complex 3D Geological Media <b>2008</b> , 579-597		22
85	Tunnel detection at Yuma Proving Ground, Arizona, USA [Part 1: 2D full-waveform inversion experiment. <i>Geophysics</i> , <b>2019</b> , 84, B95-B105	3.1	22
84	Resolution of regional seismic models: Squeezing the Iceland anomaly. <i>Geophysical Journal International</i> , <b>2005</b> , 161, 373-386	2.6	20
83	Quantifying the sensitivity of post-glacial sea level change to laterally varying viscosity. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 1324-1363	2.6	18
82	Sensitivity kernels for viscoelastic loading based on adjoint methods. <i>Geophysical Journal International</i> , <b>2014</b> , 196, 34-77	2.6	18
81	Forward and adjoint simulations of seismic wave propagation on emerging large-scale GPU architectures <b>2012</b> ,		18
80	Anisotropic full-waveform inversion with tilt-angle recovery. <i>Geophysics</i> , <b>2017</b> , 82, R135-R151	3.1	17
79	Is there a first-order discontinuity in the lowermost mantle?. <i>Earth and Planetary Science Letters</i> , <b>1998</b> , 160, 343-351	5.3	17
78	A Coupled Local-Mode Analysis of Surface-Wave Propagation In A Laterally Heterogeneous Waveguide. <i>Geophysical Journal International</i> , <b>1994</b> , 117, 153-161	2.6	16
77	Simulations of Seismic Wave Propagation on Mars. <i>Space Science Reviews</i> , <b>2017</b> , 211, 571-594	7.5	15
76	A normal mode treatment of semi-diurnal body tides on an aspherical, rotating and anelastic Earth. <i>Geophysical Journal International</i> , <b>2015</b> , 202, 1392-1406	2.6	15
75	A new analysis of the great 1970 Colombia earthquake and its isotropic component. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 20423-20434		15
74	The Berry phase of a slowly varying waveguide. <i>Proceedings of the Royal Society A</i> , <b>1992</b> , 437, 329-342		15
73	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> , <b>2016</b> , 30, 411-422	1.8	15
72	Spectral-infinite-element simulations of gravity anomalies. <i>Geophysical Journal International</i> , <b>2018</b> , 215, 1098-1117	2.6	14



71	Seismic probes of solar interior magnetic structure. <i>Physical Review Letters</i> , <b>2012</b> , 109, 101101	7.4	14
70	On Maxwell singularities in postglacial rebound. <i>Geophysical Journal International</i> , <b>1999</b> , 136, 492-498	2.6	14
69	Surface Wave Propagation In A Slowly Varying Anisotropic Waveguide. <i>Geophysical Journal International</i> , <b>1993</b> , 113, 239-249	2.6	14
68	Simulation of multistage excavation based on a 3D spectral-element method. <i>Computers and Structures</i> , <b>2012</b> , 100-101, 54-69	4.5	13
67	Acoustic, elastic and poroelastic simulations of CO2 sequestration crosswell monitoring based on spectral-element and adjoint methods. <i>Geophysical Journal International</i> , <b>2011</b> , 185, 955-966	2.6	13
66	Summation of the Born series for the normal modes of the Earth. <i>Geophysical Journal International</i> , <b>1990</b> , 100, 527-533	2.6	13
65	Crustal anisotropy in a subduction zone forearc: Northern Cascadia. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 7058-7078	3.6	12
64	Synthetic free-oscillation spectra: an appraisal of various mode-coupling methods. <i>Geophysical Journal International</i> , <b>2015</b> , 203, 1179-1192	2.6	12
63	Surface wave sensitivity: mode summation versus adjoint SEM. <i>Geophysical Journal International</i> , <b>2011</b> , 187, 1560-1576	2.6	12
62	<b>2018</b> ,		12
61	Balancing unevenly distributed data in seismic tomography: a global adjoint tomography example. <i>Geophysical Journal International</i> , <b>2019</b> , 219, 1225-1236	2.6	11
60	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> , <b>2002</b> , 107, ETG 18-1-ETG 18-10		11
59	The reflection and transmission of plane P- and S-waves by a continuously stratified band: a new approach using invariant imbedding. <i>Geophysical Journal International</i> , <b>1989</b> , 96, 447-456	2.6	11
58	The origin of secondary microseism Love waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 29504-29511	11.5	10
57	A Structural VP Model of the Salton Trough, California, and Its Implications for Seismic Hazard. <i>Bulletin of the Seismological Society of America</i> , <b>2006</b> , 96, 1882-1896	2.3	10
56	Surface Wave Caustics. <i>Geophysical Journal International</i> , <b>1993</b> , 114, 311-324	2.6	10
55	Application of 2D full-waveform inversion on exploration land data. <i>Geophysics</i> , <b>2020</b> , 85, R75-R86	3.1	10
54	Spectral-infinite-element simulations of earthquake-induced gravity perturbations. <i>Geophysical Journal International</i> , <b>2019</b> , 217, 451-468	2.6	9

53	Effects of induced stress on seismic forward modelling and inversion. <i>Geophysical Journal International</i> , <b>2018</b> , 213, 851-867	2.6	9
52	Toward real-time regional earthquake simulation II: Real-time Online earthquake Simulation (ROS) of Taiwan earthquakes. <i>Journal of Asian Earth Sciences</i> , <b>2014</b> , 87, 56-68	2.8	9
51	FULL WAVEFORM INVERSION FOR TIME-DISTANCE HELIOSEISMOLOGY. <i>Astrophysical Journal</i> , <b>2014</b> , 784, 69	4.7	9
50	Maslov theory for surface wave propagation on a laterally heterogeneous earth. <i>Geophysical Journal International</i> , <b>1993</b> , 115, 512-528	2.6	9
49	Strategies in Adjoint Tomography <b>2013</b> , 1-52		9
48	Spectral-infinite-element simulations of coseismic and post-earthquake deformation. <i>Geophysical Journal International</i> , <b>2019</b> , 216, 1364-1393	2.6	9
47	Forward and inverse modelling of post-seismic deformation. <i>Geophysical Journal International</i> , <b>2017</b> , 208, 845-876	2.6	8
46	DETECTABLE SEISMIC CONSEQUENCES OF THE INTERACTION OF A PRIMORDIAL BLACK HOLE WITH EARTH. <i>Astrophysical Journal</i> , <b>2012</b> , 751, 16	4.7	8
45	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> , <b>2005</b> , 240, 322-327	5.3	8
44	Impact of topography on earthquake static slip estimates. <i>Tectonophysics</i> , <b>2020</b> , 791, 228566	3.1	8
43	Automated time-window selection based on machine learning for full-waveform inversion <b>2017</b> ,		7
42	Impact of topography and three-dimensional heterogeneity on coseismic deformation. <i>Geophysical Journal International</i> , <b>2019</b> , 217, 866-878	2.6	7
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