

Barbara A Romanowicz

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.

243
papers

12,011
citations

61
h-index

100
g-index

259
ext. papers

13,089
ext. citations

7.4
avg, IF

6.84
L-index

#	Paper	IF	Citations
243	On the relative temperatures of Earth's volcanic hotspots and mid-ocean ridges.. <i>Science</i> , 2022 , 375, 57-61	33.3	7
242	Mantle plumes and their role in Earth processes. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 382-401	30.2	16
241	Constraining Jumps in Density and Elastic Properties at the 660 km Discontinuity Using Normal Mode Data via the Backus-Gilbert Method. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092217	4.9	3
240	Dynamic history of the inner core constrained by seismic anisotropy. <i>Nature Geoscience</i> , 2021 , 14, 531-538	15.3	4
239	Effects of upper mantle structure beneath Alaska on core-sensitive seismic wave absolute and differential measurements: Implications for estimates of inner core anisotropy. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 315, 106713	2.3	1
238	Seismic Tomography of the Earth's Mantle 2021 , 587-609		0
237	Seismic anisotropy, dominant slip systems and phase transitions in the lowermost mantle. <i>Geophysical Journal International</i> , 2021 , 227, 1665-1681	2.6	2
236	Multi-Mode Waveform Tomography of the Indian Ocean Upper and Mid-Mantle Around the Réunion Hotspot. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021490	3.6	4
235	A Plan for a Long-Term, Automated, Broadband Seismic Monitoring Network on the Global Seafloor. <i>Seismological Research Letters</i> , 2020 , 91, 1343-1355	3	6
234	Upper mantle slab under Alaska: contribution to anomalous core-phase observations on south-Sandwich to Alaska paths. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 299, 106427	2.3	6
233	Accelerating full waveform inversion via source stacking and cross-correlations. <i>Geophysical Journal International</i> , 2020 , 220, 308-322	2.6	1
232	Deflating the LLSVPs: Bundles of Mantle Thermochemical Plumes Rather Than Thick Stagnant Biles <i>Tectonics</i> , 2020 , 39, e2020TC006265	4.3	20
231	Location of Seismic Blum Sources Following Storms in the North Pacific Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 1454-1467	3.6	2
230	Primitive Helium Is Sourced From Seismically Slow Regions in the Lowermost Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 4130-4145	3.6	25
229	New normal mode constraints on bulk inner core velocities and density. <i>Physics of the Earth and Planetary Interiors</i> , 2019 , 295, 106310	2.3	6
228	On the orientation of the fast and slow directions of anisotropy in the deep inner core. <i>Physics of the Earth and Planetary Interiors</i> , 2019 , 286, 101-110	2.3	7
227	Box Tomography: first application to the imaging of upper-mantle shear velocity and radial anisotropy structure beneath the North American continent. <i>Geophysical Journal International</i> , 2018 , 213, 1849-1875	2.6	22

226	Inferring global upper-mantle shear attenuation structure by waveform tomography using the spectral element method. <i>Geophysical Journal International</i> , 2018 , 213, 1536-1558	2.6	11
225	Global seismic attenuation imaging using full-waveform inversion: a comparative assessment of different choices of misfit functionals. <i>Geophysical Journal International</i> , 2018 , 212, 807-826	2.6	10
224	Observation of core sensitive phases: Constraints on the velocity and attenuation profile in the vicinity of the inner-core boundary. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 275, 19-31	2.3	2
223	Detection of small scale heterogeneities at the Inner Core Boundary. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 281, 55-67	2.3	2
222	Multidisciplinary Constraints on the Abundance of Diamond and Eclogite in the Cratonic Lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 2062-2086	3.6	27
221	Infragravity Wave Radiation Across the Shelf Break. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 4483-4490	3.3	11
220	A Lithosphere-Asthenosphere Boundary Global Model Derived from Multimode Surface-Wave Tomography and Petrology. <i>Geophysical Monograph Series</i> , 2018 , 111-123	1.1	25
219	Introduction-Lithospheric Discontinuities. <i>Geophysical Monograph Series</i> , 2018 , 1-3	1.1	2
218	Lithospheric and Asthenospheric Structure Below Oceans from Anisotropic Tomography. <i>Geophysical Monograph Series</i> , 2018 , 55-69	1.1	2
217	Frayed Edges of Cratonic Mantle Keels. <i>Geophysical Monograph Series</i> , 2018 , 125-138	1.1	1
216	Perspectives of the S-Receiver-Function Method to Image Upper Mantle Discontinuities. <i>Geophysical Monograph Series</i> , 2018 , 139-154	1.1	2
215	Continental Lithospheric Layering Beneath Stable, Modified, and Destroyed Cratons from Seismic Daylight Imaging. <i>Geophysical Monograph Series</i> , 2018 , 155-176	1.1	1
214	Cratonic Lithosphere Discontinuities. <i>Geophysical Monograph Series</i> , 2018 , 177-203	1.1	8
213	A Refined Approach to Model Anisotropy in the Lowermost Mantle. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 375, 012002	0.4	2
212	Seismic Imaging of the Base of the Ocean Plates. <i>Geophysical Monograph Series</i> , 2018 , 71-87	1.1	11
211	On the Origin of the Upper Mantle Seismic Discontinuities. <i>Geophysical Monograph Series</i> , 2018 , 5-34	1.1	9
210	Box tomography: localized imaging of remote targets buried in an unknown medium, a step forward for understanding key structures in the deep Earth. <i>Geophysical Journal International</i> , 2017 , 211, 141-163	2.6	25
209	Anisotropy in the deep Earth. <i>Physics of the Earth and Planetary Interiors</i> , 2017 , 269, 58-90	2.3	51

208	Fast computation of synthetic seismograms within a medium containing remote localized perturbations: a numerical solution to the scattering problem. <i>Geophysical Journal International</i> , 2017 , 208, 674-692	2.6	20
207	Constraints on Inner Core Anisotropy Using Array Observations of P ₂ P ₂ . <i>Geophysical Research Letters</i> , 2017 , 44, 10,878	4.9	3
206	Seismic evidence for partial melting at the root of major hot spot plumes. <i>Science</i> , 2017 , 357, 393-397	33.3	56
205	Geophysics: The buoyancy of Earth's deep mantle. <i>Nature</i> , 2017 , 551, 308-309	50.4	9
204	On the Implications of A Priori Constraints in Transdimensional Bayesian Inversion for Continental Lithospheric Layering. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 10,118-10,131	3.6	14
203	Seismic anisotropy in the Earth's innermost inner core: Testing structural models against mineral physics predictions. <i>Geophysical Research Letters</i> , 2016 , 43, 93-100	4.9	21
202	Layered structure in the upper mantle across North America from joint inversion of long and short period seismic data. <i>Earth and Planetary Science Letters</i> , 2016 , 449, 164-175	5.3	53
201	Imaging anisotropic layering with Bayesian inversion of multiple data types. <i>Geophysical Journal International</i> , 2016 , 206, 605-629	2.6	27
200	Anomalously low amplitude of S waves produced by the 3D structures in the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2016 , 256, 26-36	2.3	3
199	Extraction of weak PcP phases using the slant-stacklet transform Π : method and examples. <i>Geophysical Journal International</i> , 2015 , 201, 207-223	2.6	5
198	High resolution upper mantle discontinuity images across the Pacific Ocean from SS precursors using local slant stack filters. <i>Geophysical Journal International</i> , 2015 , 202, 175-189	2.6	16
197	Parallel Hessian Assembly for Seismic Waveform Inversion Using Global Updates 2015 ,		6
196	Non-stationary spherical random media and their effect on long-period mantle waves. <i>Geophysical Journal International</i> , 2015 , 203, 1605-1625	2.6	10
195	Global scale observations of scattered energy near the inner-core boundary: Seismic constraints on the base of the outer-core. <i>Physics of the Earth and Planetary Interiors</i> , 2015 , 245, 103-116	2.3	11
194	Extraction of weak PcP phases using the slant-stacklet transform Π : constraints on lateral variations of structure near the core-mantle boundary. <i>Geophysical Journal International</i> , 2015 , 203, 1227-1245	2.6	7
193	Broad plumes rooted at the base of the Earth's mantle beneath major hotspots. <i>Nature</i> , 2015 , 525, 95-9	50.4	468
192	Lateral heterogeneity scales in regional and global upper mantle shear velocity models. <i>Geophysical Journal International</i> , 2015 , 200, 1078-1095	2.6	18
191	Seismic evidence for a steeply dipping reflector/stagnant slab in the mantle transition zone. <i>Geophysical Journal International</i> , 2015 , 200, 1237-1253	2.6	5

190	Interpreting Radial Anisotropy in Global and Regional Tomographic Models 2015 , 105-144		10
189	How Did Early Earth Become Our Modern World?. <i>Annual Review of Earth and Planetary Sciences</i> , 2014 , 42, 151-178	15.3	62
188	Synthetic seismic anisotropy models within a slab impinging on the core-mantle boundary. <i>Geophysical Journal International</i> , 2014 , 199, 164-177	2.6	30
187	Lithospheric expression of geological units in central and eastern North America from full waveform tomography. <i>Earth and Planetary Science Letters</i> , 2014 , 402, 176-186	5.3	67
186	Inversion of receiver functions without deconvolution—application to the Indian craton. <i>Geophysical Journal International</i> , 2014 , 196, 1025-1033	2.6	82
185	On the numerical implementation of time-reversal mirrors for tomographic imaging. <i>Geophysical Journal International</i> , 2014 , 196, 1580-1599	2.6	39
184	On the Systematic Long-Period Noise Reduction on Ocean Floor Broadband Seismic Sensors Collocated with Differential Pressure Gauges. <i>Bulletin of the Seismological Society of America</i> , 2014 , 104, 247-259	2.3	5
183	Whole-mantle radially anisotropic shear velocity structure from spectral-element waveform tomography. <i>Geophysical Journal International</i> , 2014 , 199, 1303-1327	2.6	245
182	Insights from ScS _B measurements on deep mantle attenuation. <i>Earth and Planetary Science Letters</i> , 2013 , 374, 101-110	5.3	11
181	Waveform tomography reveals channeled flow at the base of the oceanic asthenosphere. <i>Science</i> , 2013 , 342, 227-30	33.3	151
180	Observations of changing anisotropy across the southern margin of the African LLSVP. <i>Geophysical Journal International</i> , 2013 , 195, 1184-1195	2.6	42
179	Non-linear 3-D Born shear waveform tomography in Southeast Asia. <i>Geophysical Journal International</i> , 2012 , 190, 463-475	2.6	8
178	Time-reversal method and cross-correlation techniques by normal mode theory: a three-point problem. <i>Geophysical Journal International</i> , 2012 , 191, 637-652	2.6	9
177	Do double SS precursors mean double discontinuities?. <i>Geophysical Journal International</i> , 2012 ,	2.6	7
176	Lateral variations in SH velocity structure of the transition zone beneath Korea and adjacent regions. <i>Journal of Geophysical Research</i> , 2012 , 117,		8
175	An unusually large ULVZ at the base of the mantle near Hawaii. <i>Earth and Planetary Science Letters</i> , 2012 , 355-356, 213-222	5.3	80
174	Cluster analysis of global lower mantle tomography: A new class of structure and implications for chemical heterogeneity. <i>Earth and Planetary Science Letters</i> , 2012 , 357-358, 68-77	5.3	180
173	On the interpretation of SKS splitting measurements in the presence of several layers of anisotropy. <i>Geophysical Journal International</i> , 2012 , 188, 1129-1140	2.6	11

172	Towards improving ambient noise tomography using simultaneously curvelet denoising filters and SEM simulations of seismic ambient noise. <i>Comptes Rendus - Geoscience</i> , 2011 , 343, 591-599	1.4	16
171	Deformation in the lowermost mantle: From polycrystal plasticity to seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2011 , 306, 33-45	5.3	50
170	Tectonic regionalization without a priori information: A cluster analysis of upper mantle tomography. <i>Earth and Planetary Science Letters</i> , 2011 , 308, 151-160	5.3	59
169	Asymmetric deformation across the San Francisco Bay Area faults from GPS observations in Northern California. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 184, 143-153	2.3	10
168	3-D shear wave radially and azimuthally anisotropic velocity model of the North American upper mantle. <i>Geophysical Journal International</i> , 2011 , 184, 1237-1260	2.6	123
167	The one-bit noise correlation: a theory based on the concepts of coherent and incoherent noise. <i>Geophysical Journal International</i> , 2011 , 184, 1397-1414	2.6	41
166	Inferring upper-mantle structure by full waveform tomography with the spectral element method. <i>Geophysical Journal International</i> , 2011 , 185, 799-831	2.6	125
165	Determination of focal depth by two waveformbased methods: A case study for the 2008 Panzihua earthquake. <i>Earthquake Science</i> , 2011 , 24, 321-328	1.5	4
164	A simple method for improving crustal corrections in waveform tomography. <i>Geophysical Journal International</i> , 2010 , no-no	2.6	19
163	Lithospheric layering in the North American craton. <i>Nature</i> , 2010 , 466, 1063-8	50.4	366
162	The GEOSCOPE Program: Progress and Challenges during the Past 30 Years. <i>Seismological Research Letters</i> , 2010 , 81, 427-452	3	14
161	North American lithospheric discontinuity structure imaged by Ps and Sp receiver functions. <i>Journal of Geophysical Research</i> , 2010 , 115,		194
160	Joint inversion for three-dimensional S velocity mantle structure along the Tethyan margin. <i>Journal of Geophysical Research</i> , 2010 , 115,		52
159	Reply to Comment on Measurement and implications of frequency dependence of attenuation by I. Morozov. <i>Earth and Planetary Science Letters</i> , 2010 , 293, 216-217	5.3	1
158	Mantle Anchor Structure: An argument for bottom up tectonics. <i>Earth and Planetary Science Letters</i> , 2010 , 299, 69-79	5.3	161
157	Depth dependent azimuthal anisotropy in the western US upper mantle. <i>Earth and Planetary Science Letters</i> , 2010 , 300, 385-394	5.3	32
156	Importance of crustal corrections in the development of a new global model of radial anisotropy. <i>Journal of Geophysical Research</i> , 2010 , 115,		101
155	Acquiring Real Time Data from the Broadband Ocean Bottom Seismic Observatory at Monterey Bay (MOBB). <i>Seismological Research Letters</i> , 2009 , 80, 197-202	3	10

154	Seismic waveform modelling in a 3-D Earth using the Born approximation: potential shortcomings and a remedy. <i>Geophysical Journal International</i> , 2009 , 177, 161-178	2.6	29
153	Inferring the thermochemical structure of the upper mantle from seismic data. <i>Geophysical Journal International</i> , 2009 , 179, 1169-1185	2.6	41
152	Finite frequency effects on globalSdiffracted traveltimes. <i>Geophysical Journal International</i> , 2009 , 179, 1645-1657	2.6	9
151	Measurement and implications of frequency dependence of attenuation. <i>Earth and Planetary Science Letters</i> , 2009 , 282, 285-293	5.3	57
150	Constraints on shear wave attenuation in the Earth's inner core from an observation of PKJKP. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	14
149	Geophysics. The thickness of tectonic plates. <i>Science</i> , 2009 , 324, 474-6	33.3	67
148	Grand Challenges for Seismology. <i>Eos</i> , 2009 , 90, 361-362	1.5	10
147	Using seismic waves to image Earth's internal structure. <i>Nature</i> , 2008 , 451, 266-8	50.4	50
146	Radial profiles of seismic attenuation in the upper mantle based on physical models. <i>Geophysical Journal International</i> , 2008 , 175, 116-134	2.6	22
145	On the computation of long period seismograms in a 3-D earth using normal mode based approximations. <i>Geophysical Journal International</i> , 2008 , 175, 520-536	2.6	25
144	Observations of infragravity waves at the ocean-bottom broadband seismic stations Endeavour (KEBB) and Explorer (KXBB). <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	17
143	Identifying and removing noise from the Monterey ocean bottom broadband seismic station (MOBB) data. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	13
142	Test of the innermost inner core models using broadband PKIKP travel time residuals. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	25
141	The depth distribution of azimuthal anisotropy in the continental upper mantle. <i>Nature</i> , 2007 , 447, 198-201	30.4	125
140	Non-linear crustal corrections in high-resolution regional waveform seismic tomography. <i>Geophysical Journal International</i> , 2007 , 170, 460-467	2.6	48
139	Three-dimensional radial anisotropic structure of the North American upper mantle from inversion of surface waveform data. <i>Geophysical Journal International</i> , 2007 , 171, 206-222	2.6	63
138	Insights into the nature of the transition zone from physically constrained inversion of long-period seismic data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9139-44	11.5	68
137	Short wavelength topography on the inner-core boundary. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 31-5	11.5	54

136	Deep Earth Structure IQ of the Earth from Crust to Core 2007 , 731-774		26
135	Slip of the 2004 Sumatra-Andaman Earthquake from Joint Inversion of Long-Period Global Seismic Waveforms and GPS Static Offsets. <i>Bulletin of the Seismological Society of America</i> , 2007 , 97, S115-S127 ²⁻³		87
134	Locating scatterers in the mantle using array analysis of PKP precursors from an earthquake doublet. <i>Earth and Planetary Science Letters</i> , 2007 , 255, 22-31	5-3	32
133	A study of the relation between ocean storms and the Earth's hum. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	92
132	Long-period seismology on Europa: 1. Physically consistent interior models. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		19
131	Long-period seismology on Europa: 2. Predicted seismic response. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		25
130	A three-dimensional radially anisotropic model of shear velocity in the whole mantle. <i>Geophysical Journal International</i> , 2006 , 167, 361-379	2.6	288
129	Ocean Seismic Observatories. <i>Oceanography</i> , 2006 , 19, 144-149	2-3	4
128	3D effects of sharp boundaries at the borders of the African and Pacific Superplumes: Observation and modeling. <i>Earth and Planetary Science Letters</i> , 2005 , 233, 137-153	5-3	107
127	Observations of infragravity waves at the Monterey ocean bottom broadband station (MOBB). <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	25
126	Towards global earth tomography using the spectral element method: a technique based on source stacking. <i>Geophysical Journal International</i> , 2005 , 162, 541-554	2.6	49
125	Rapid Finite-source Analysis and Near-fault Strong Ground Motions: Application to the 2003 Mw 6.5 San Simeon and 2004 Mw 6.0 Parkfield Earthquakes. <i>Seismological Research Letters</i> , 2005 , 76, 40-48	3	42
124	An observation of PKJKP: inferences on inner core shear properties. <i>Science</i> , 2005 , 308, 1453-5	33-3	48
123	Qtomography of the upper mantle using three-component long-period waveforms. <i>Geophysical Journal International</i> , 2004 , 157, 813-830	2.6	115
122	Constraints on density and shear velocity contrasts at the inner core boundary. <i>Geophysical Journal International</i> , 2004 , 157, 1146-1151	2.6	48
121	Excitation of Earth's continuous free oscillations by atmosphere-ocean-seafloor coupling. <i>Nature</i> , 2004 , 431, 552-6	50-4	222
120	Inferences on flow at the base of Earth's mantle based on seismic anisotropy. <i>Science</i> , 2004 , 303, 351-3	33-3	180
119	Hemispherical transition of seismic attenuation at the top of the earth's inner core. <i>Earth and Planetary Science Letters</i> , 2004 , 228, 243-253	5-3	100

118	77 The rapid earthquake data integration project. <i>International Geophysics</i> , 2003 , 81, 1261-1273		5
117	Coupling spectral elements and modes in a spherical Earth: an extension to the Sandwich Case. <i>Geophysical Journal International</i> , 2003 , 154, 44-57	2.6	33
116	Global anisotropy and the thickness of continents. <i>Nature</i> , 2003 , 422, 707-11	50.4	352
115	GLOBALMANTLETOMOGRAPHY: Progress Status in the Past 10 Years. <i>Annual Review of Earth and Planetary Sciences</i> , 2003 , 31, 303-328	15.3	140
114	The MOBB experiment: A prototype permanent off-shore ocean bottom broadband station. <i>Eos</i> , 2003 , 84, 325	1.5	13
113	3D structure of the Earth's lower mantle. <i>Comptes Rendus - Geoscience</i> , 2003 , 335, 23-35	1.4	10
112	On the origin of complexity in PKP travel time data. <i>Geodynamic Series</i> , 2003 , 31-44		44
111	Constraints on D? structure using PKP(AB-DF), PKP(BC-DF) and PcP-P traveltimes data from broad-band records. <i>Geophysical Journal International</i> , 2002 , 149, 599-616	2.6	70
110	On the resolution of density anomalies in the Earth's mantle using spectral fitting of normal-mode data. <i>Geophysical Journal International</i> , 2002 , 150, 162-179	2.6	76
109	Superplumes from the core-mantle boundary to the lithosphere: implications for heat flux. <i>Science</i> , 2002 , 296, 513-6	33.3	176
108	11 Inversion of surface waves: A review. <i>International Geophysics</i> , 2002 , 81, 149-173		19
107	Feasibility of Real-Time Broadband Waveform Inversion for Simultaneous Moment Tensor and Centroid Location Determination. <i>Bulletin of the Seismological Society of America</i> , 2002 , 92, 739-750	2.3	17
106	Short scale heterogeneity in the lowermost mantle: insights from PcP-P and ScS-S data. <i>Earth and Planetary Science Letters</i> , 2002 , 201, 57-68	5.3	29
105	On moment-length scaling of large strike slip earthquakes and the strength of faults. <i>Geophysical Research Letters</i> , 2002 , 29, 45-1	4.9	33
104	Geophysical ocean bottom observatories or temporary portable networks?. <i>Developments in Marine Technology</i> , 2002 , 59-81		
103	The MBARI Margin seismology experiment: A prototype seafloor observatory. <i>Developments in Marine Technology</i> , 2002 , 93-110		2
102	MOISE: A Prototype Multiparameter Ocean-Bottom Station. <i>Bulletin of the Seismological Society of America</i> , 2001 , 91, 885-892	2.3	8
101	Best Practice in Earthquake Location Using Broadband Three-component Seismic Waveform Data 2001 , 158, 259-276		4

100	Geophysics. The future of permanent seismic networks. <i>Science</i> , 2001 , 293, 2000-1	33.3	13
99	Can we resolve 3D density heterogeneity in the lower mantle?. <i>Geophysical Research Letters</i> , 2001 , 28, 1107-1110	4.9	97
98	The Pacific Plume as seen by S, ScS, and SKS. <i>Geophysical Research Letters</i> , 2001 , 28, 1859-1862	4.9	17
97	Seismological constraints on attenuation in the Earth: A review. <i>Geophysical Monograph Series</i> , 2000 , 161-179	1.1	38
96	A Comparison Between Tomographic and Geodynamic Models of the Earth's Mantle. <i>Geophysical Monograph Series</i> , 2000 , 257-276	1.1	3
95	The three-dimensional shear velocity structure of the mantle from the inversion of body, surface and higher-mode waveforms. <i>Geophysical Journal International</i> , 2000 , 143, 709-728	2.6	402
94	The COSY Project: verification of global seismic modeling algorithms. <i>Physics of the Earth and Planetary Interiors</i> , 2000 , 119, 3-23	2.3	36
93	Seismic waveform modeling and surface wave tomography in a three-dimensional Earth: asymptotic and non-asymptotic approaches. <i>Physics of the Earth and Planetary Interiors</i> , 2000 , 119, 37-56	2.3	34
92	The effect of D? on PKP(ABDF) travel time residuals and possible implications for inner core structure. <i>Earth and Planetary Science Letters</i> , 2000 , 175, 133-143	5.3	64
91	Anomalous splitting of free oscillations: A reevaluation of possible interpretations. <i>Journal of Geophysical Research</i> , 2000 , 105, 21559-21578		61
90	New constraints on the structure of the inner core from P ₁ . <i>Geophysical Research Letters</i> , 2000 , 27, 2781-2784	4.9	13
89	The Mw 5.1 San Juan Bautista, California Earthquake of 12 August 1998. <i>Seismological Research Letters</i> , 1999 , 70, 10-18	3	14
88	The effects of the theoretical formalism and data selection on mantle models derived from waveform tomography. <i>Geophysical Journal International</i> , 1999 , 138, 366-380	2.6	23
87	Inner core anisotropy inferred by direct inversion of normal mode spectra. <i>Geophysical Journal International</i> , 1999 , 139, 599-622	2.6	63
86	Rupture processes of large deep-focus earthquakes from inversion of moment rate functions. <i>Journal of Geophysical Research</i> , 1999 , 104, 863-894		39
85	PKP(BC-DF) Travel time residuals and short scale heterogeneity in the deep Earth. <i>Geophysical Research Letters</i> , 1999 , 26, 3169-3172	4.9	56
84	Anisotropic structures at the base of the Earth's mantle. <i>Nature</i> , 1998 , 393, 564-567	50.4	68
83	Attenuation Tomography of the Earth's Mantle: A Review of Current Status. <i>Pure and Applied Geophysics</i> , 1998 , 153, 257-272	2.2	41

82	The seismic OPTIMISM experiment. <i>Planetary and Space Science</i> , 1998 , 46, 739-747	2	27
81	MOISE: A pilot experiment towards long term sea-floor geophysical observatories. <i>Earth, Planets and Space</i> , 1998 , 50, 927-937	2.9	20
80	Viscosity of oceanic asthenosphere inferred from remote triggering of earthquakes. <i>Science</i> , 1998 , 280, 1245-9	33.3	155
79	Test of tomographic models of D? using differential travel time data. <i>Geophysical Research Letters</i> , 1998 , 25, 5-8	4.9	18
78	Seismic experiment paves way for long-term seafloor observatories. <i>Eos</i> , 1998 , 79, 301-301	1.5	5
77	On the inversion of Sd particle motion for seismic anisotropy in D'. <i>Geophysical Research Letters</i> , 1998 , 25, 679-682	4.9	6
76	Time scales and heterogeneous structure in geodynamic earth models. <i>Science</i> , 1998 , 280, 91-5	33.3	194
75	Three-dimensional structure at the base of the mantle beneath the central pacific. <i>Science</i> , 1998 , 282, 718-20	33.3	69
74	Broadband Seismic Station Installation Guidelines. <i>Seismological Research Letters</i> , 1998 , 69, 15-26	3	9
73	Attenuation Tomography of the Earth's Mantle: A Review of Current Status 1998 , 257-272		1
72	Geophysical Dynamics at the Center of the Earth. <i>Physics Today</i> , 1997 , 50, 22-27	0.9	10
71	Imaging 3-D spherical convection models: What can seismic tomography tell us about mantle dynamics?. <i>Geophysical Research Letters</i> , 1997 , 24, 1299-1302	4.9	41
70	Anisotropy in the inner core: relation between P-velocity and attenuation. <i>Physics of the Earth and Planetary Interiors</i> , 1997 , 101, 33-47	2.3	41
69	Anisotropy in inner core attenuation: A new type of data to constrain the nature of the solid core. <i>Geophysical Research Letters</i> , 1996 , 23, 1-4	4.9	81
68	Finite fault source study of the Great 1994 Deep Bolivia Earthquake. <i>Geophysical Research Letters</i> , 1996 , 23, 1589-1592	4.9	23
67	Global mantle shear velocity model developed using nonlinear asymptotic coupling theory. <i>Journal of Geophysical Research</i> , 1996 , 101, 22245-22272		331
66	Anisotropy in the Inner Core: Could It Be Due To Low-Order Convection?. <i>Science</i> , 1996 , 274, 963-6	33.3	76
65	Real-time seismology at UC Berkeley: The Rapid Earthquake Data Integration project. <i>Bulletin of the Seismological Society of America</i> , 1996 , 86, 936-945	2.3	18

64	Toward real-time estimation of regional moment tensors. <i>Bulletin of the Seismological Society of America</i> , 1996 , 86, 1255-1269	2.3	126
63	Comparison of global waveform inversions with and without considering cross-branch modal coupling. <i>Geophysical Journal International</i> , 1995 , 121, 695-709	2.6	154
62	Extraterrestrial neutrinos and Earth structure. <i>Earth and Planetary Science Letters</i> , 1995 , 133, 95-103	5.3	17
61	Seismic anisotropy in the D? layer. <i>Geophysical Research Letters</i> , 1995 , 22, 1657-1660	4.9	88
60	P'P' Precursors Under Africa: Evidence for Mid-Mantle Reflectors. <i>Science</i> , 1995 , 270, 74-77	33.3	50
59	A global tomographic model of shear attenuation in the upper mantle. <i>Journal of Geophysical Research</i> , 1995 , 100, 12375-12394		147
58	A first step toward an oceanic geophysical observatory. <i>Eos</i> , 1994 , 75, 150	1.5	20
57	Accessing northern California earthquake data via Internet. <i>Eos</i> , 1994 , 75, 257	1.5	33
56	Hot action at the core-mantle boundary. <i>Eos</i> , 1994 , 75, 563	1.5	
55	Anisotropy in the center of the inner core. <i>Geophysical Research Letters</i> , 1994 , 21, 1671-1674	4.9	71
54	Anelastic tomography: a new perspective on upper mantle thermal structure. <i>Earth and Planetary Science Letters</i> , 1994 , 128, 113-121	5.3	36
53	On the variation of b-values with earthquake size. <i>Physics of the Earth and Planetary Interiors</i> , 1994 , 87, 55-76	2.3	100
52	On the measurement of anelastic attenuation using amplitudes of low-frequency surface waves. <i>Physics of the Earth and Planetary Interiors</i> , 1994 , 84, 179-191	2.3	36
51	The French Pilot Experiment OFM-SISMOBS: first scientific results on noise level and event detection. <i>Physics of the Earth and Planetary Interiors</i> , 1994 , 84, 321-336	2.3	35
50	Reply to comment on On scaling relations for large earthquakes by Romanowicz and Rundle from the perspective of a recent non-linear diffusion equation linking short-time deformation to long-time tectonics. <i>Bulletin of the Seismological Society of America</i> , 1994 , 84, 1684-1684	2.3	3
49	Spatiotemporal patterns in the energy release of great earthquakes. <i>Science</i> , 1993 , 260, 1923-6	33.3	71
48	The cape mendocino, california, earthquakes of april 1992: subduction at the triple junction. <i>Science</i> , 1993 , 261, 433-8	33.3	78
47	Degrees 2, 4, 6 inferred from seismic tomography. <i>Geophysical Research Letters</i> , 1993 , 20, 631-634	4.9	21

46	Tomographic study of upper mantle attenuation in the Pacific Ocean. <i>Geophysical Research Letters</i> , 1993 , 20, 663-666	4.9	19
45	Monitoring of strain release in central and northern California using broadband data. <i>Geophysical Research Letters</i> , 1993 , 20, 1643-1646	4.9	58
44	On scaling relations for large earthquakes. <i>Bulletin of the Seismological Society of America</i> , 1993 , 83, 1294-1297	4.3	48
43	Crust and upper mantle tomography in Tibet using surface waves. <i>Geophysical Research Letters</i> , 1992 , 19, 881-884	4.9	82
42	Strike-slip earthquakes on quasi-vertical transcurrent faults: Inferences for general scaling relations. <i>Geophysical Research Letters</i> , 1992 , 19, 481-484	4.9	106
41	Regional geodynamic implications of the May-July 1990 earthquake sequence in southern Sudan. <i>Tectonophysics</i> , 1992 , 209, 87-103	3.1	25
40	Seismic Tomography of the Earth's Mantle. <i>Annual Review of Earth and Planetary Sciences</i> , 1991 , 19, 77-99	5.3	97
39	Inversion of teleseismic S particle motion for azimuthal anisotropy in the upper mantle: a feasibility study. <i>Geophysical Journal International</i> , 1991 , 106, 421-431	2.6	79
38	The GEOSCOPE program: Present status and perspectives. <i>Bulletin of the Seismological Society of America</i> , 1991 , 81, 243-264	2.3	31
37	3-D upper mantle shear velocity and attenuation from fundamental mode free oscillation data. <i>Geophysical Journal International</i> , 1990 , 101, 61-80	2.6	61
36	Modelling of coupled normal modes of the Earth: the spectral method. <i>Geophysical Journal International</i> , 1990 , 102, 365-395	2.6	67
35	The Romanian earthquake of August 30, 1986: A study based on GEOSCOPE very long-period and broadband data. <i>Pure and Applied Geophysics</i> , 1990 , 133, 367-379	2.2	11
34	The 23 May 1989 MacQuarie Ridge Earthquake: A very broad band analysis. <i>Geophysical Research Letters</i> , 1990 , 17, 993-996	4.9	34
33	The Loma Prieta Earthquake of October 18, 1989: Results of teleseismic mantle and body wave inversion. <i>Geophysical Research Letters</i> , 1990 , 17, 1191-1194	4.9	12
32	Effect of a global plume distribution on Earth normal modes. <i>Geophysical Research Letters</i> , 1990 , 17, 1493-1496	4.9	6
31	Three-dimensional structure of the upper mantle beneath the Atlantic Ocean inferred from long-period Rayleigh waves: 2. Inversion. <i>Journal of Geophysical Research</i> , 1990 , 95, 6787		11
30	The upper mantle degree 2: Constraints and inferences from global mantle wave attenuation measurements. <i>Journal of Geophysical Research</i> , 1990 , 95, 11051		84
29	The Spitak (Armenia) earthquake of 7 December 1988: field observations, seismology and tectonics. <i>Nature</i> , 1989 , 339, 675-679	50.4	55

28	Effect of sharp lateral heterogeneity on the Earth's normal modes. <i>Geophysical Research Letters</i> , 1989 , 16, 397-400	4.9	5
27	Observational evidence for diffracted SV in the shadow of the Earth's core. <i>Geophysical Research Letters</i> , 1989 , 16, 519-522	4.9	67
26	Macquarie earthquake of May 23, 1989. <i>Eos</i> , 1989 , 70, 700	1.5	6
25	Three-dimensional structure of the upper mantle beneath the Atlantic Ocean inferred from long-period Rayleigh waves: 1. Group and phase velocity distributions. <i>Journal of Geophysical Research</i> , 1989 , 94, 7449		15
24	A new formalism for the effect of lateral heterogeneity on normal modes and surface waves-I: isotropic perturbations, perturbations of interfaces and gravitational perturbations. <i>Geophysical Journal International</i> , 1988 , 92, 207-221	2.6	45
23	A new formalism for the effect of lateral heterogeneity on normal modes and surface waves-II. General anisotropic perturbation. <i>Geophysical Journal International</i> , 1988 , 93, 91-99	2.6	38
22	Asymptotic approximations for normal modes and surface waves in the vicinity of the antipode: Constraints on global earth models. <i>Journal of Geophysical Research</i> , 1988 , 93, 7885		2
21	The upper mantle degree two pattern: Constraints from geoscope fundamental spheroidal mode eigenfrequency and attenuation measurements. <i>Geophysical Research Letters</i> , 1987 , 14, 1219-1222	4.9	39
20	Multiplet-multiplet coupling due to lateral heterogeneity: asymptotic effects on the amplitude and frequency of the Earth's normal modes. <i>Geophysical Journal International</i> , 1987 , 90, 75-100	2.6	102
19	First-order asymptotics for the eigenfrequencies of the Earth and application to the retrieval of large-scale lateral variations of structure. <i>Geophysical Journal International</i> , 1986 , 87, 209-239	2.6	48
18	A low-velocity zone in the central Chang-Thang platform of Tibet: Evidence from pure path phase velocity measurements of long period Rayleigh waves. <i>Journal of Geophysical Research</i> , 1986 , 91, 6547		120
17	Toward a federation of broadband seismic networks. <i>Eos</i> , 1986 , 67, 541	1.5	27
16	Importance of on scale observations of first arriving Rayleigh wave trains for source studies: Example of the Chilean Event of March 3, 1985, Observed on the Geoscope and Ida Networks. <i>Geophysical Research Letters</i> , 1986 , 13, 1015-1018	4.9	17
15	Pure path attenuation measurements of long-period Rayleigh waves across the Tibet Plateau. <i>Physics of the Earth and Planetary Interiors</i> , 1984 , 36, 116-123	2.3	6
14	GEOSCOPE: A French initiative in long-period three-component global seismic networks. <i>Eos</i> , 1984 , 65, 753	1.5	101
13	An experiment in the retrieval of depth and source mechanism of large earthquakes using very long-period Rayleigh wave data. <i>Bulletin of the Seismological Society of America</i> , 1984 , 74, 417-437	2.3	45
12	Very long-period data from the geoscope network: Preliminary results on great circle averages of fundamental and higher Rayleigh and Love modes. <i>Bulletin of the Seismological Society of America</i> , 1984 , 74, 2221-2243	2.3	20
11	On an improved method to obtain the moment tensor and depth of earthquakes from the amplitude spectrum of Rayleigh waves. <i>Bulletin of the Seismological Society of America</i> , 1983 , 73, 1513-1526	2.3	27

10	Lateral heterogeneity in continents: moment-tensor inversion of long-period surface waves and depth resolution of crustal events; body-wave modeling and phase-velocity calibrations. <i>Physics of the Earth and Planetary Interiors</i> , 1982 , 30, 269-271	2.3	2
9	Moment tensor inversion of long period Rayleigh waves: A new approach. <i>Journal of Geophysical Research</i> , 1982 , 87, 5395-5407		41
8	Constraints on the structure of the Tibet Plateau from pure path phase velocities of Love and Rayleigh waves. <i>Journal of Geophysical Research</i> , 1982 , 87, 6865-6883		86
7	Depth resolution of earthquakes in central Asia by moment tensor inversion of long-period Rayleigh waves: Effects of phase velocity variations across Eurasia and their calibration. <i>Journal of Geophysical Research</i> , 1981 , 86, 5963-5984		24
6	Large historical earthquakes and seismic risk in Northwest Syria. <i>Nature</i> , 1980 , 285, 217-220	50.4	16
5	A study of large-scale lateral variations of P velocity in the upper mantle beneath western Europe. <i>Geophysical Journal International</i> , 1980 , 63, 217-232	2.6	44
4	Large scale three dimensional P velocity structure beneath the western U.S. and the lost Farallon Plate. <i>Geophysical Research Letters</i> , 1980 , 7, 345-348	4.9	7
3	Reconsideration of the relations between S and P Station anomalies in North America. <i>Geophysical Research Letters</i> , 1980 , 7, 417-420	4.9	23
2	Seismic structure of the upper mantle beneath the United States by three-dimensional inversion of body wave arrival times. <i>Geophysical Journal International</i> , 1979 , 57, 479-506	2.6	59
1	The mass and moment of inertia of the Earth. <i>Physics of the Earth and Planetary Interiors</i> , 1977 , 15, P1-P42.3	2.3	6