Jeffrey Park Or Jeff Park Or J Park

List of Publications by Year
in descending order

86 papers	5,519 citations	76326 40 h-index	79698 73 g-index
87 all docs	87 docs citations	87 times ranked	3578 citing authors

#	Article	IF	Citations
1	Multitaper spectral analysis of highâ€frequency seismograms. Journal of Geophysical Research, 1987, 92, 12675-12684.	3.3	323
2	Global-scale modes of surface temperature variability on interannual to century timescales. Journal of Geophysical Research, 1994, 99, 25819.	3.3	259
3	Earth's Free Oscillations Excited by the 26 December 2004 Sumatra-Andaman Earthquake. Science, 2005, 308, 1139-1144.	12.6	231
4	B-type olivine fabric in the mantle wedge: Insights from high-resolution non-Newtonian subduction zone models. Earth and Planetary Science Letters, 2005, 237, 781-797.	4.4	231
5	Global interdecadal and century-scale climate oscillations during the past five centuries. Nature, 1995, 378, 266-270.	27.8	229
6	P-SHconversions in a flat-layered medium with anisotropy of arbitrary orientation. Geophysical Journal International, 1997, 131, 253-266.	2.4	208
7	Seismic Anisotropy: Tracing Plate Dynamics in the Mantle. Science, 2002, 296, 485-489.	12.6	205
8	Seismic evidence for catastrophic slab loss beneath Kamchatka. Nature, 2002, 418, 763-767.	27.8	180
9	joint Spatiotemporal Modes of Surface Temperature and Sea Level Pressure Variability in the Northern Hemisphere during the Last Century. Journal of Climate, 1996, 9, 2137-2162.	3.2	169
10	Mantle flow at a slab edge: Seismic anisotropy in the Kamchatka Region. Geophysical Research Letters, 2001, 28, 379-382.	4.0	155
11	Frequency dependent polarization analysis of highâ€frequency seismograms. Journal of Geophysical Research, 1987, 92, 12664-12674.	3.3	139
12	Shear wave splitting in the Appalachians and the Urals: A case for multilayered anisotropy. Journal of Geophysical Research, 1999, 104, 17975-17993.	3.3	135
13	Mechanisms and geologic significance of the mid-lithosphere discontinuity in the continents. Nature Geoscience, 2015, 8, 509-514.	12.9	128
14	Oscillatory Spatiotemporal Signal Detection in Climate Studies: A Multiple-Taper Spectral Domain Approach. Advances in Geophysics, 1999, 41, 1-131.	2.8	117
15	Multiple-taper spectral analysis: A stand-alone C-subroutine. Computers and Geosciences, 1995, 21, 199-236.	4.2	108
16	Greenhouse warming and changes in the seasonal cycle of temperature: Model versus observations. Geophysical Research Letters, 1996, 23, 1111-1114.	4.0	98
17	Crustal anisotropy in the Ural Mountains Foredeep from teleseismic receiver functions. Geophysical Research Letters, 1997, 24, 1283-1286.	4.0	98
18	Shear zones in the Proterozoic lithosphere of the Arabian Shield and the nature of the Hales discontinuity. Tectonophysics, 2000, 323, 131-148.	2.2	97

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19	Hunting for Paleoclimatic Periodicities in a Geologic Time Series With an Uncertain Time Scale. Journal of Geophysical Research, 1987, 92, 14027-14040.	3.3	96
20	Multiwavelet spectral and polarization analyses of seismic records. Geophysical Journal International, 1995, 122, 1001-1021.	2.4	91
21	Observations of coupled spheroidal and toroidal modes. Journal of Geophysical Research, 1983, 88, 10285-10298.	3.3	89
22	Coupled free oscillations of an aspherical, dissipative, rotating Earth: Galerkin theory. Journal of Geophysical Research, 1986, 91, 7241-7260.	3.3	85
23	Crust and upper mantle of Kamchatka from teleseismic receiver functions. Tectonophysics, 2002, 358, 233-265.	2.2	84
24	Synthetic seismograms from coupled free oscillations: Effects of lateral structure and rotation. Journal of Geophysical Research, 1986, 91, 6441-6464.	3.3	78
25	Structural features of the subducting slab beneath the Kii Peninsula, central Japan: Seismic evidence of slab segmentation, dehydration, and anisotropy. Journal of Geophysical Research, 2008, 113, .	3.3	74
26	Subduction zone anisotropy beneath Corvallis, Oregon: A serpentinite skid mark of trench-parallel terrane migration?. Journal of Geophysical Research, 2004, 109, .	3.3	72
27	Anisotropy and coupled free oscillations: simplified models and surface wave observations. Geophysical Journal International, 1992, 110, 401-420.	2.4	69
28	Spatial correlations of interdecadal variation in global surface temperatures. Geophysical Research Letters, 1993, 20, 1055-1058.	4.0	68
29	Receiver function study of the Cascadia megathrust: Evidence for localized serpentinization. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	63
30	Hunting for azimuthal anisotropy beneath the Pacific Ocean region. Journal of Geophysical Research, 1994, 99, 15399.	3.3	59
31	Seismological detection of lowâ€velocity anomalies surrounding the mantle transition zone in Japan subduction zone. Geophysical Research Letters, 2016, 43, 2480-2487.	4.0	59
32	Plioâ€”Pleistocene time evolution of the 100â€kyr cycle in marine paleoclimate records. Journal of Geophysical Research, 1993, 98, 447-461.	3.3	58
33	Regional metamorphic dehydration and seismic hazard. Geophysical Research Letters, 1998, 25, 4221-4224.	4.0	53
34	Global seismographic network records the Great Sumatra-Andaman earthquake. Eos, 2005, 86, 57.	0.1	53
35	Surface waves in layered anisotropic structures. Geophysical Journal International, 1996, 126, 173-183.	2.4	52
36	Clouds and sulfate are anticorrelated: A new diagnostic for global sulfur models. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	52

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37	Hunting for oceanic island Moho. Geophysical Journal International, 2005, 160, 1020-1026.	2.4	52
38	Upper mantle anisotropy and coupled-mode long-period surface waves. Geophysical Journal International, 1993, 114, 473-489.	2.4	51
39	Slab portal beneath the western Aleutians. Geology, 2005, 33, 253.	4.4	50
40	Quasi-Love phases between Tonga and Hawaii: Observations, simulations, and explanations. Journal of Geophysical Research, 1998, 103, 24321-24331.	3.3	44
41	Effect of precessional insolation changes on Cretaceous climate and cyclic sedimentation. Journal of Geophysical Research, 1989, 94, 14793-14816.	3.3	41
42	Interannual Temperature Events and Shifts in Global Temperature: A â€œMultiwaveletâ€•Correlation Approach. Earth Interactions, 2000, 4, 1-36.	1.5	41
43	Anisotropy and the splitting of PS waves. Physics of the Earth and Planetary Interiors, 1994, 86, 263-276.	1.9	38
44	Seismic evidence for water transport out of the mantle transition zone beneath the European Alps. Earth and Planetary Science Letters, 2018, 482, 93-104.	4.4	38
45	Crustal anisotropy in northeastern Tibetan Plateau inferred from receiver functions: Rock textures caused by metamorphic fluids and lower crust flow?. Tectonophysics, 2015, 661, 66-80.	2.2	37
46	Nature of the seismic lithosphereâ€asthenosphere boundary within normal oceanic mantle from highâ€resolution receiver functions. Geochemistry, Geophysics, Geosystems, 2016, 17, 1265-1282.	2.5	36
47	PandSwave upper mantle seismic velocity structure beneath the northern Apennines: New evidence for the end of subduction. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	35
48	Receiver functions from regionalPwaves. Geophysical Journal International, 2001, 147, 1-11.	2.4	33
49	Thinning of the upper mantle during late Paleozoic Appalachian orogenesis. Geology, 2000, 28, 239.	4.4	32
50	Crustal anisotropy beneath <scp>P</scp>acific <scp>O</scp>ceanâ€<scp>I</scp>slands from harmonic decomposition of receiver functions. Geochemistry, Geophysics, Geosystems, 2016, 17, 810-832.	2.5	32
51	No regional anisotropic domains in the northeastern U.S. Appalachians. Journal of Geophysical Research, 2000, 105, 19029-19042.	3.3	31
52	A Dangling Slab, Amplified Arc Volcanism, Mantle Flow and Seismic Anisotropy in the Kamchatka Plate Corner. Geodynamic Series, 2013, , 295-324.	0.1	31
53	Milankovitch rhythms in the Cretaceous: A GCM modelling study. Palaeogeography, Palaeoclimatology, Palaeoecology, 1991, 90, 329-355.	2.3	29
54	Shear wave birefringence in wedge-shaped anisotropic regions. Geophysical Journal International, 2007, 168, 275-286.	2.4	28

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55	Free oscillations in an anisotropic earth: path-integral asymptotics. Geophysical Journal International, 1997, 129, 399-411.	2.4	26
56	Mantle wedge anisotropy in Southern Tyrrhenian Subduction Zone (Italy), from receiver function analysis. Tectonophysics, 2008, 462, 35-48.	2.2	25
57	Crustal structure above a retreating trench: Receiver function study of the northern Apennines orogen. Earth and Planetary Science Letters, 2008, 275, 211-220.	4.4	25
58	Seismic receiver function interpretation:Ps splitting or anisotropic underplating?. Geophysical Journal International, 2017, 208, 1332-1341.	2.4	25
59	Deep mantle melting, global water circulation and its implications for the stability of the ocean mass. Progress in Earth and Planetary Science, 2020, 7, .	3.0	25
60	Mantle anisotropy beneath the Tibetan Plateau: evidence from long-period surface waves. Physics of the Earth and Planetary Interiors, 1995, 87, 231-246.	1.9	24
61	Radial mode observations from the 5/23/89 MacQuarie Ridge Earthquake. Geophysical Research Letters, 1990, 17, 1005-1008.	4.0	23
62	The sensitivity of seismic free oscillations to upper mantle anisotropy 1. Zonal symmetry. Journal of Geophysical Research, 1993, 98, 19933-19949.	3.3	23
63	Densityâ€Pressure Profiles of Feâ€Bearing MgSiO₃ Liquid: Effects of Valence and Spin States, and Implications for the Chemical Evolution of the Lower Mantle. Geophysical Research Letters, 2018, 45, 3959-3966.	4.0	22
64	On the relative importance of the driving forces of plate motion. Geophysical Journal International, 1981, 67, 415-435.	2.4	21
65	Anisotropic seismic structure of the lithosphere beneath the Adriatic coast of Italy constrained with mode-converted body waves. Geophysical Research Letters, 2002, 29, 15-1-15-4.	4.0	21
66	Normal mode multiplet coupling along a dispersion branch. Geophysical Journal International, 1991, 106, 11-35.	2.4	19
67	A comparison of precession and obliquity effects in a Cretaceous paleoclimate simulation. Geophysical Research Letters, 1990, 17, 1929-1932.	4.0	17
68	Texture of mantle lithosphere along the Dead Sea Rift: Recently imposed or inherited?. Physics of the Earth and Planetary Interiors, 2006, 158, 174-189.	1.9	17
69	Milankovitch rhythms in the Cretaceous: A GCM modelling study. Global and Planetary Change, 1991, 4, 329-355.	3.5	14
70	P-SH Conversions in Layered Media with Hexagonally Symmetric Anisotropy: A CookBook. , 1998, , 669-697.		14
71	Roughness constraints in surface wave tomography. Geophysical Research Letters, 1989, 16, 1329-1332.	4.0	13
72	Born seismograms using coupled free oscillations: the effects of strong coupling and anisotropy. Geophysical Journal International, 1993, 115, 849-862.	2.4	13

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73	Why Is Crustal Underplating Beneath Many Hot Spot Islands Anisotropic?. Geochemistry, Geophysics, Geosystems, 2019, 20, 4779-4809.	2.5	13
74	Broader Impacts of the Metasomatic Underplating Hypothesis. Geochemistry, Geophysics, Geosystems, 2019, 20, 4810-4829.	2.5	12
75	Observations of free oscillation amplitude anomalies. Geophysical Research Letters, 1987, 14, 895-898.	4.0	11
76	Anisotropy gradients from QL surface waves: Evidence for vertically coherent deformation in the Tibet region. Tectonophysics, 2013, 608, 346-355.	2.2	11
77	Love-to-Rayleigh scattering across the eastern North American passive margin. Tectonophysics, 2020, 776, 228321.	2.2	10
78	Observed envelopes of coupled seismic free oscillations. Geophysical Research Letters, 1990, 17, 1489-1492.	4.0	9
79	Modal investigation of elastic anisotropy in shallow-water environments: Anisotropy beyond vertical transverse isotropy. Journal of the Acoustical Society of America, 2013, 134, 185-206.	1.1	9
80	Seismic anisotropy and geodynamics of the lithosphereâ€“asthenosphere system. Tectonophysics, 2008, 462, 1-6.	2.2	5
81	Anisotropic Layering and Seismic Body Waves: Deformation Gradients, Initial S-Polarizations, and Converted-Wave Birefringence. Pure and Applied Geophysics, 2021, 178, 2001-2023.	1.9	4
82	Seismic Evidence of Midâ€Mantle Water Transport Beneath the Yellowstone Region. Geophysical Research Letters, 2021, 48, e2021GL095838.	4.0	4
83	Reply to comment by Kawakatsu and Abe on â€œNature of the seismic lithosphereâ€asthenosphere boundary within normal oceanic mantle from highâ€resolution receiver functionsâ€• Geochemistry, Geophysics, Geosystems, 2016, 17, 3493-3501.	2.5	1
84	Free-oscillation coupling theory. Modern Approaches in Geophysics, 1988, , 31-52.	0.1	1
85	Seismic wave theory in the US: 1991â€“1994. Reviews of Geophysics, 1995, 33, 335.	23.0	0
86	Seismic Anisotropy. , 2021, , 622-635.		0