Karen Fischer

List of Publications by Year
in descending order

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Version: 2024-02-01

53	3,766	147801	175258
papers	citations	31 h-index	52 g-index

57	57	57	2148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Lithosphere-Asthenosphere Boundary. Annual Review of Earth and Planetary Sciences, 2010, 38, 551-575.	11.0	349
2	A Complex Pattern of Mantle Flow in the Lau Backarc. Science, 2001, 292, 713-716.	12.6	248
3	North American lithospheric discontinuity structure imaged by Ps and Sp receiver functions. Journal of Geophysical Research, 2010, 115, .	3.3	233
4	Shear wave splitting, continental keels, and patterns of mantle flow. Journal of Geophysical Research, 2000, 105, 6255-6275.	3.3	219
5	Arc-parallel flow in the mantle wedge beneath Costa Rica and Nicaragua. Nature, 2008, 451, 1094-1097.	27.8	201
6	Mantle anisotropy beneath northwest Pacific subduction zones. Journal of Geophysical Research, 1996, 101, 15987-16002.	3.3	175
7	The lithosphereâ€“asthenosphere boundary and cratonic lithospheric layering beneath Australia from Sp wave imaging. Earth and Planetary Science Letters, 2010, 300, 299-310.	4.4	158
8	Pâ€toâ€S and Sâ€toâ€P imaging of a sharp lithosphereâ€asthenosphere boundary beneath eastern North America. Journal of Geophysical Research, 2007, 112, .	3.3	151
9	The influence of plate motions on three-dimensional back arc mantle flow and shear wave splitting. Journal of Geophysical Research, 2000, 105, 28009-28033.	3.3	146
10	3-D shear wave radially and azimuthally anisotropic velocity model of the North American upper mantle. Geophysical Journal International, 2011, 184, 1237-1260.	2.4	136
11	Shear velocity structure and azimuthal anisotropy beneath eastern North America from Rayleigh wave inversion. Journal of Geophysical Research, 2003, 108, .	3.3	125
12	Waning buoyancy in the crustal roots of old mountains. Nature, 2002, 417, 933-936.	27.8	109
13	Lithospheric Thinning Beneath Rifted Regions of Southern California. Science, 2011, 334, 783-787.	12.6	107
14	Modeling anisotropy and plate-driven flow in the Tonga subduction zone back arc. Journal of Geophysical Research, 2000, 105, 16181-16191.	3.3	92
15	Seismic anisotropy beneath the Shumagin Islands segment of the Aleutian-Alaska subduction zone. Journal of Geophysical Research, 1995, 100, 18165-18177.	3.3	88
16	The lithosphereâ€“asthenosphere boundary and the tectonic and magmatic history of the northwestern United States. Earth and Planetary Science Letters, 2014, 402, 69-81.	4.4	77
17	Contrasting lithospheric signatures across the western United States revealed by Sp receiver functions. Earth and Planetary Science Letters, 2014, 402, 90-98.	4.4	76
18	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. Geochemistry, Geophysics, Geosystems, 2014, 15, 3521-3542.	2.5	71

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19	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. Pure and Applied Geophysics, 1998, 151, 463-475.	1.9	70
20	Resolving three-dimensional anisotropic structure with shear wave splitting tomography. Geophysical Journal International, 2008, 173, 859-886.	2.4	65
21	Relationship between observed upper mantle structures and recent tectonic activity across the Southeastern United States. Journal of Geophysical Research: Solid Earth, 2016, 121, 3393-3414.	3.4	64
22	The meaning of midlithospheric discontinuities: A case study in the northern U.S. craton. Geochemistry, Geophysics, Geosystems, 2015, 16, 4057-4083.	2.5	60
23	Shear wave anisotropy beneath Nicaragua and Costa Rica: Implications for flow in the mantle wedge. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	52
24	A mechanism for lowâ€extent melts at the lithosphereâ€asthenosphere boundary. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	52
25	Reconstructing the end of the Appalachian orogeny. Geology, 2017, 45, 15-18.	4.4	45
26	The Changing Face of the Lithosphereâ€Asthenosphere Boundary: Imaging Continental Scale Patterns in Upper Mantle Structure Across the Contiguous U.S. With Sp Converted Waves. Geochemistry, Geophysics, Geosystems, 2018, 19, 2593-2614.	2.5	44
27	Constraints on upper mantle anisotropy surrounding the Cocos slab from SK(K)S splitting. Journal of Geophysical Research, 2010, 115, .	3.3	39
28	A Visual Survey of Global Slab Geometries With ShowEarthModel and Implications for a Threeâ€Dimensional Subduction Paradigm. Earth and Space Science, 2018, 5, 240-257.	2.6	38
29	Localized shear in the deep lithosphere beneath the San Andreas fault system. Geology, 2014, 42, 295-298.	4.4	36
30	Interpreting spatially stacked Sp receiver functions. Geophysical Journal International, 2017, 210, 874-886.	2.4	36
31	The relative roles of inheritance and long-term passive margin lithospheric evolution on the modern structure and tectonic activity in the southeastern United States. , 2018, 14, 1385-1410.		35
32	Crustal evolution across the southern Appalachians: Initial results from the SESAME broadband array. Geophysical Research Letters, 2013, 40, 3853-3857.	4.0	34
33	Multichannel inversion of scattered teleseismic body waves: Practical considerations and applicability. Geophysical Monograph Series, 2005, , 187-203.	0.1	33
34	Crustal structure beneath the Floridaâ€toâ€Edmonton broadband seismometer array. Geophysical Research Letters, 2009, 36, .	4.0	31
35	The impact of slab dip variations, gaps and rollback on mantle wedge flow: insights from fluids experiments. Geophysical Journal International, 2014, 197, 705-730.	2.4	26
36	An adaptive Bayesian inversion for upper-mantle structure using surface waves and scattered body waves. Geophysical Journal International, 2018, 214, 232-253.	2.4	24

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37	Assessing the presence of volatile-bearing mineral phases in the cratonic mantle as a possible cause of mid-lithospheric discontinuities. Earth and Planetary Science Letters, 2021, 553, 116602.	4.4	24
38	How Sharp Is the Cratonic Lithosphereâ€Asthenosphere Transition?. Geophysical Research Letters, 2017, 44, 10,189.	4.0	23
39	Seismic anisotropy above and below the subducting Nazca lithosphere in southern South America. Journal of Geophysical Research, 2012, 117, .	3.3	22
40	A comparison of oceanic and continental mantle lithosphere. Physics of the Earth and Planetary Interiors, 2020, 309, 106600.	1.9	20
41	Global Patterns in Cratonic Midâ€Lithospheric Discontinuities From Sp Receiver Functions. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009819.	2.5	19
42	Constraining lithologic variability along the Alleghanian detachment in the southern Appalachians using passive-source seismology. Geology, 2015, 43, 431-434.	4.4	15
43	Imaging crustal structure beneath the southern Appalachians with wavefield migration. Geophysical Research Letters, 2016, 43, 12,054.	4.0	13
44	The zone of influence of the subducting slab in the asthenospheric mantle. Journal of Geophysical Research: Solid Earth, 2017, 122, 6599-6624.	3.4	13
45	Shallow mantle velocities beneath the southern Appalachians from Pn phases. Geophysical Research Letters, 2015, 42, 339-345.	4.0	11
46	The lithosphereâ€“asthenosphere boundary beneath the South Island of New Zealand. Earth and Planetary Science Letters, 2018, 484, 92-102.	4.4	11
47	Shear wave splitting and shear wave splitting tomography of the southern Puna plateau. Geophysical Journal International, 2014, 199, 688-699.	2.4	10
48	Imaging with pre-stack migration based on Sp scattering kernels. Geophysical Journal International, 2020, 220, 428-449.	2.4	10
49	Hotspot signatures at the North American passive margin. Geology, 2021, 49, 525-530.	4.4	9
50	The spatial sensitivity of Sp converted wavesâ€”scattered-wave kernels and their applications to receiver-function migration and inversion. Geophysical Journal International, 2018, 212, 1722-1735.	2.4	8
51	New Approaches to Multifrequency Sp Stacking Tested in the Anatolian Region. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020313.	3.4	8
52	New Insights Into Lithospheric Structure and Melting Beneath the Colorado Plateau. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	3
53	Multiâ€Layer Seismic Anisotropy Beneath Greenland. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009512.	2.5	2