

Karen Fischer

List of Publications by Year in descending order

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53
papers

3,766
citations

147801

31
h-index

175258

52
g-index

57
all docs

57
docs citations

57
times ranked

2148
citing authors

#	ARTICLE	IF	CITATIONS
1	New Insights Into Lithospheric Structure and Melting Beneath the Colorado Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	3
2	Assessing the presence of volatile-bearing mineral phases in the cratonic mantle as a possible cause of mid-lithospheric discontinuities. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116602.	4.4	24
3	Hotspot signatures at the North American passive margin. <i>Geology</i> , 2021, 49, 525-530.	4.4	9
4	Multi-Layer Seismic Anisotropy Beneath Greenland. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009512.	2.5	2
5	Global Patterns in Cratonic Mid-Lithospheric Discontinuities From Sp Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009819.	2.5	19
6	Imaging with pre-stack migration based on Sp scattering kernels. <i>Geophysical Journal International</i> , 2020, 220, 428-449.	2.4	10
7	New Approaches to Multifrequency <i>Sp</i> Stacking Tested in the Anatolian Region. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020313.	3.4	8
8	A comparison of oceanic and continental mantle lithosphere. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 309, 106600.	1.9	20
9	An adaptive Bayesian inversion for upper-mantle structure using surface waves and scattered body waves. <i>Geophysical Journal International</i> , 2018, 214, 232-253.	2.4	24
10	The spatial sensitivity of Sp converted waves’ scattered-wave kernels and their applications to receiver-function migration and inversion. <i>Geophysical Journal International</i> , 2018, 212, 1722-1735.	2.4	8
11	The lithosphere–asthenosphere boundary beneath the South Island of New Zealand. <i>Earth and Planetary Science Letters</i> , 2018, 484, 92-102.	4.4	11
12	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
13	The Changing Face of the Lithosphere–Asthenosphere Boundary: Imaging Continental Scale Patterns in Upper Mantle Structure Across the Contiguous U.S. With Sp Converted Waves. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2593-2614.	2.5	44
14	A Visual Survey of Global Slab Geometries With ShowEarthModel and Implications for a Three-Dimensional Subduction Paradigm. <i>Earth and Space Science</i> , 2018, 5, 240-257.	2.6	38
15	How Sharp Is the Cratonic Lithosphere–Asthenosphere Transition?. <i>Geophysical Research Letters</i> , 2017, 44, 10,189.	4.0	23
16	Interpreting spatially stacked Sp receiver functions. <i>Geophysical Journal International</i> , 2017, 210, 874-886.	2.4	36
17	The zone of influence of the subducting slab in the asthenospheric mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6599-6624.	3.4	13
18	Reconstructing the end of the Appalachian orogeny. <i>Geology</i> , 2017, 45, 15-18.	4.4	45

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19	Imaging crustal structure beneath the southern Appalachians with wavefield migration. <i>Geophysical Research Letters</i> , 2016, 43, 12,054.	4.0	13
20	Relationship between observed upper mantle structures and recent tectonic activity across the Southeastern United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3393-3414.	3.4	64
21	The meaning of midlithospheric discontinuities: A case study in the northern U.S. craton. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4057-4083.	2.5	60
22	Shallow mantle velocities beneath the southern Appalachians from <i>Pn</i> phases. <i>Geophysical Research Letters</i> , 2015, 42, 339-345.	4.0	11
23	Constraining lithologic variability along the Alleghanian detachment in the southern Appalachians using passive-source seismology. <i>Geology</i> , 2015, 43, 431-434.	4.4	15
24	The impact of slab dip variations, gaps and rollback on mantle wedge flow: insights from fluids experiments. <i>Geophysical Journal International</i> , 2014, 197, 705-730.	2.4	26
25	Localized shear in the deep lithosphere beneath the San Andreas fault system. <i>Geology</i> , 2014, 42, 295-298.	4.4	36
26	Shear wave splitting and shear wave splitting tomography of the southern Puna plateau. <i>Geophysical Journal International</i> , 2014, 199, 688-699.	2.4	10
27	The lithosphere-asthenosphere boundary and the tectonic and magmatic history of the northwestern United States. <i>Earth and Planetary Science Letters</i> , 2014, 402, 69-81.	4.4	77
28	Contrasting lithospheric signatures across the western United States revealed by <i>Sp</i> receiver functions. <i>Earth and Planetary Science Letters</i> , 2014, 402, 90-98.	4.4	76
29	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3521-3542.	2.5	71
30	Crustal evolution across the southern Appalachians: Initial results from the SESAME broadband array. <i>Geophysical Research Letters</i> , 2013, 40, 3853-3857.	4.0	34
31	Seismic anisotropy above and below the subducting Nazca lithosphere in southern South America. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
32	Lithospheric Thinning Beneath Rifted Regions of Southern California. <i>Science</i> , 2011, 334, 783-787.	12.6	107
33	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.	2.4	136
34	The Lithosphere-Asthenosphere Boundary. <i>Annual Review of Earth and Planetary Sciences</i> , 2010, 38, 551-575.	11.0	349
35	Constraints on upper mantle anisotropy surrounding the Cocos slab from <i>SK</i> (<i>K</i>) <i>S</i> splitting. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
36	North American lithospheric discontinuity structure imaged by <i>Ps</i> and <i>Sp</i> receiver functions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	233

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37	A mechanism for low-extent melts at the lithosphere-asthenosphere boundary. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	52
38	The lithosphere-asthenosphere boundary and cratonic lithospheric layering beneath Australia from Sp wave imaging. <i>Earth and Planetary Science Letters</i> , 2010, 300, 299-310.	4.4	158
39	Shear wave anisotropy beneath Nicaragua and Costa Rica: Implications for flow in the mantle wedge. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	52
40	Crustal structure beneath the Florida-Edmonton broadband seismometer array. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	31
41	Arc-parallel flow in the mantle wedge beneath Costa Rica and Nicaragua. <i>Nature</i> , 2008, 451, 1094-1097.	27.8	201
42	Resolving three-dimensional anisotropic structure with shear wave splitting tomography. <i>Geophysical Journal International</i> , 2008, 173, 859-886.	2.4	65
43	<i>P</i> and <i>S</i> imaging of a sharp lithosphere-asthenosphere boundary beneath eastern North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	151
44	Multichannel inversion of scattered teleseismic body waves: Practical considerations and applicability. <i>Geophysical Monograph Series</i> , 2005, , 187-203.	0.1	33
45	Shear velocity structure and azimuthal anisotropy beneath eastern North America from Rayleigh wave inversion. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	125
46	Waning buoyancy in the crustal roots of old mountains. <i>Nature</i> , 2002, 417, 933-936.	27.8	109
47	A Complex Pattern of Mantle Flow in the Lau Backarc. <i>Science</i> , 2001, 292, 713-716.	12.6	248
48	The influence of plate motions on three-dimensional back arc mantle flow and shear wave splitting. <i>Journal of Geophysical Research</i> , 2000, 105, 28009-28033.	3.3	146
49	Shear wave splitting, continental keels, and patterns of mantle flow. <i>Journal of Geophysical Research</i> , 2000, 105, 6255-6275.	3.3	219
50	Modeling anisotropy and plate-driven flow in the Tonga subduction zone back arc. <i>Journal of Geophysical Research</i> , 2000, 105, 16181-16191.	3.3	92
51	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. <i>Pure and Applied Geophysics</i> , 1998, 151, 463-475.	1.9	70
52	Mantle anisotropy beneath northwest Pacific subduction zones. <i>Journal of Geophysical Research</i> , 1996, 101, 15987-16002.	3.3	175
53	Seismic anisotropy beneath the Shumagin Islands segment of the Aleutian-Alaska subduction zone. <i>Journal of Geophysical Research</i> , 1995, 100, 18165-18177.	3.3	88