

Matthew J Fouch

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,759
citations

185998

28
h-index

276539

41
g-index

44
all docs

44
docs citations

44
times ranked

1990
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic anisotropy beneath stable continental interiors. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 158, 292-320.	0.7	229
2	An overview of the Izu-Bonin-Mariana subduction factory. <i>Geophysical Monograph Series</i> , 2003, , 175-222.	0.1	221
3	Shear wave splitting, continental keels, and patterns of mantle flow. <i>Journal of Geophysical Research</i> , 2000, 105, 6255-6275.	3.3	219
4	Mantle anisotropy beneath northwest Pacific subduction zones. <i>Journal of Geophysical Research</i> , 1996, 101, 15987-16002.	3.3	175
5	Mantle seismic structure beneath the Kaapvaal and Zimbabwe Cratons. <i>South African Journal of Geology</i> , 2004, 107, 33-44.	0.6	151
6	Complex and variable crustal and uppermost mantle seismic anisotropy in the western United States. <i>Nature Geoscience</i> , 2011, 4, 55-61.	5.4	151
7	Vertical mantle flow associated with a lithospheric drip beneath the Great Basin. <i>Nature Geoscience</i> , 2009, 2, 439-444.	5.4	143
8	Slab fragmentation, edge flow and the origin of the Yellowstone hotspot track. <i>Earth and Planetary Science Letters</i> , 2011, 311, 124-135.	1.8	124
9	Subduction factory processes beneath the Guguan cross-chain, Mariana Arc: no role for sediments, are serpentinites important?. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 202-221.	1.2	117
10	Three-dimensional seismic velocity structure of the northwestern United States. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	101
11	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.	1.8	77
12	Lateral Variations in Compressional/Shear Velocities at the Base of the Mantle. <i>Science</i> , 1999, 284, 120-125.	6.0	64
13	Lowermost mantle anisotropy beneath the Pacific: Imaging the source of the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2001, 190, 167-180.	1.8	64
14	Crustal structure beneath the High Lava Plains of eastern Oregon and surrounding regions from receiver function analysis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	62
15	Shear wave splitting and the pattern of mantle flow beneath eastern Oregon. <i>Earth and Planetary Science Letters</i> , 2009, 288, 359-369.	1.8	59
16	Shear wave anisotropy in the Mariana Subduction Zone. <i>Geophysical Research Letters</i> , 1998, 25, 1221-1224.	1.5	58
17	Unraveling the geometry of the Farallon plate: Synthesis of three-dimensional imaging results from USArray. <i>Tectonophysics</i> , 2012, 532-535, 82-102.	0.9	57
18	Depths and temperatures of 10.5‰Ma mantle melting and the lithosphere-asthenosphere boundary below southern Oregon and northern California. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 864-879.	1.0	56

#	ARTICLE	IF	CITATIONS
19	Seismic characterization of mantle flow in subduction systems: Can we resolve a hydrated mantle wedge?. <i>Earth and Planetary Science Letters</i> , 2006, 243, 632-649.	1.8	54
20	Receiver function imaging of upper mantle complexity beneath the Pacific Northwest, United States. <i>Earth and Planetary Science Letters</i> , 2010, 297, 141-153.	1.8	54
21	Detailed three-dimensional shear wave velocity structure of the northwestern United States from Rayleigh wave tomography. <i>Earth and Planetary Science Letters</i> , 2010, 299, 273-284.	1.8	54
22	Mantle dynamics beneath the Pacific Northwest and the generation of voluminous back-arc volcanism. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	54
23	Azimuthal anisotropy in the D ³ layer beneath the Caribbean. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	53
24	FunLab: A MATLAB Interactive Toolbox for Handling Receiver Function Datasets. <i>Seismological Research Letters</i> , 2012, 83, 596-603.	0.8	50
25	Small-scale variations in seismic anisotropy near Kimberley, South Africa. <i>Geophysical Journal International</i> , 2004, 157, 764-774.	1.0	47
26	Seismic anisotropy in the Izu-Bonin subduction system. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	39
27	The Yellowstone Hotspot: Plume or Not?. <i>Geology</i> , 2012, 40, 479-480.	2.0	38
28	Isotropy or weak vertical transverse isotropy in D ³ beneath the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	29
29	The role of hydrous phases in the formation of trench parallel anisotropy: Evidence from Rayleigh waves in Cascadia. <i>Geophysical Research Letters</i> , 2013, 40, 2642-2646.	1.5	23
30	Depth constraints on azimuthal anisotropy in the Great Basin from Rayleigh-wave phase velocity maps. <i>Earth and Planetary Science Letters</i> , 2010, 289, 467-478.	1.8	22
31	Crust and upper mantle structure beneath the Pacific Northwest from joint inversions of ambient noise and earthquake data. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	19
32	Seismicity within Arizona during the Deployment of the EarthScope USArray Transportable Array. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 1850-1863.	1.1	17
33	Support of high elevation in the southern Basin and Range based on the composition and architecture of the crust in the Basin and Range and Colorado Plateau. <i>Earth and Planetary Science Letters</i> , 2006, 249, 62-73.	1.8	14
34	Modeling time-dependent and -independent indicators to facilitate identification of breakthrough research papers. <i>Scientometrics</i> , 2016, 107, 807-817.	1.6	14
35	Constraints on the causes of mid-Miocene volcanism in the Pacific Northwest US from ambient noise tomography. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	12
36	Dynamic lithosphere within the Great Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1128-1146.	1.0	10

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37	EMERALD: A Web Application for Seismic Event Data Processing. Seismological Research Letters, 2012, 83, 1061-1067.	0.8	9
38	Seismic evidence for lithospheric modification beneath the Mojave Neovolcanic Province, Southern California. Geophysical Research Letters, 2013, 40, 5119-5124.	1.5	8
39	Lithospheric structure beneath the High Lava Plains, Oregon, imaged by scattered teleseismic waves. Geochemistry, Geophysics, Geosystems, 2013, 14, 4835-4848.	1.0	6
40	Analysis of Seismic Activity near Theodore Roosevelt Dam, Arizona, during the Occupation of the EarthScope/USArray Transportable Array. Seismological Research Letters, 2012, 83, 1014-1022.	0.8	3
41	A new GIS-driven geophysical database for the southwestern United States. , 2006, , .		1
42	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. , 1998, , 463-475.		0