

S M Hansen

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

794
citations

623734

14
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot mantle upwelling across the 660 beneath Yellowstone. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 224-236.	4.4	112
2	Magma reservoirs from the upper crust to the Moho inferred from high-resolution Vp and Vs models beneath Mount St. Helens, Washington State, USA. <i>Geology</i> , 2016, 44, 411-414.	4.4	94
3	Thermal classification of lithospheric discontinuities beneath USArray. <i>Earth and Planetary Science Letters</i> , 2015, 431, 36-47.	4.4	80
4	Automated detection and location of microseismicity at Mount St. Helens with a large-scale geophone array. <i>Geophysical Research Letters</i> , 2015, 42, 7390-7397.	4.0	70
5	A rootless Rockies? Support and lithospheric structure of the Colorado Rocky Mountains inferred from CREST and TA seismic data. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2670-2695.	2.5	65
6	P- and S-Wave Receiver Function Images of Crustal Imbrication beneath the Cheyenne Belt in Southeast Wyoming. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1953-1961.	2.3	48
7	Characterizing the 410 km discontinuity low-velocity layer beneath the LA RISTRA array in the North American Southwest. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	42
8	Seismic evidence for a cold serpentinized mantle wedge beneath Mount St Helens. <i>Nature Communications</i> , 2016, 7, 13242.	12.8	42
9	A sporadic low-velocity layer atop the western U.S. mantle transition zone and short-wavelength variations in transition zone discontinuities. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	40
10	Seismic array constraints on reach-scale bedload transport. <i>Geology</i> , 2017, 45, 299-302.	4.4	36
11	Focusing of melt near the top of the Mount St. Helens (USA) magma reservoir and its relationship to major volcanic eruptions. <i>Geology</i> , 2018, 46, 775-778.	4.4	36
12	Rayleigh and S wave tomography constraints on subduction termination and lithospheric foundering in central California. <i>Earth and Planetary Science Letters</i> , 2018, 488, 14-26.	4.4	35
13	Local Source <i>Vp</i> and <i>Vs</i> Tomography in the Mount St. Helens Region With the iMUSH Broadband Array. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008888.	2.5	26
14	<i>P</i> and <i>S</i> Wave Receiver Function Imaging of Subduction With Scattering Kernels. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 4487-4502.	2.5	24
15	Upper crustal low-frequency seismicity at Mount St. Helens detected with a dense geophone array. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 329-341.	2.1	16
16	Seismic tomography of the Colorado Rocky Mountains upper mantle from CREST: Lithosphere-asthenosphere interactions and mantle support of topography. <i>Earth and Planetary Science Letters</i> , 2014, 402, 107-119.	4.4	13
17	Seismic evidence for a fossil slab origin for the Isabella anomaly. <i>Geophysical Journal International</i> , 2020, 224, 1188-1196.	2.4	6
18	Upper Crustal Structure and Magmatism in Southwest Washington: <i>Vp</i> , <i>Vs</i> , and <i>Vp/Vs</i> Results From the iMUSH Active-Source Seismic Experiment. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7067-7080.	3.4	5

#	ARTICLE	IF	CITATIONS
19	Multiscale imaging of the Earth's interior with Receiver Function Scattering Kernels. Acta Geologica Sinica, 2019, 93, 329-329.	1.4	2
20	Seismic Evidence of Bottomâ€Up Crustal Control on Volcanism and Magma Storage Near Mount St. Helens. Geophysical Research Letters, 2021, 48, e2020GL090612.	4.0	2