

# Weisen Shen

## List of Publications by Citations

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32  
papers

1,770  
citations

21  
h-index

35  
g-index

35  
ext. papers

2,160  
ext. citations

4.4  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
32	Crustal and uppermost mantle structure beneath the United States. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 4306-4342	3.6	187
31	A 3-D model of the crust and uppermost mantle beneath the Central and Western US by joint inversion of receiver functions and surface wave dispersion. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 262-276	3.6	165
30	A synoptic view of the distribution and connectivity of the mid-crustal low velocity zone beneath Tibet. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		158
29	A seismic reference model for the crust and uppermost mantle beneath China from surface wave dispersion. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 954-979	2.6	154
28	Joint inversion of surface wave dispersion and receiver functions: a Bayesian Monte-Carlo approach. <i>Geophysical Journal International</i> , <b>2013</b> , 192, 807-836	2.6	154
27	The structure of the crust and uppermost mantle beneath South China from ambient noise and earthquake tomography. <i>Geophysical Journal International</i> , <b>2012</b> , 189, 1565-1583	2.6	119
26	Crust and uppermost mantle beneath the North China Craton, northeastern China, and the Sea of Japan from ambient noise tomography. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		117
25	Water input into the Mariana subduction zone estimated from ocean-bottom seismic data. <i>Nature</i> , <b>2018</b> , 563, 389-392	50.4	92
24	Crustal radial anisotropy across Eastern Tibet and the Western Yangtze Craton. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 4226-4252	3.6	89
23	Ambient noise tomography with a large seismic array. <i>Comptes Rendus - Geoscience</i> , <b>2011</b> , 343, 558-570	1.4	87
22	A one-dimensional seismic model for Uturuncu volcano, Bolivia, and its impact on full moment tensor inversions <b>2017</b> , 13, 1-10		45
21	The Crust and Upper Mantle Structure of Central and West Antarctica From Bayesian Inversion of Rayleigh Wave and Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 7824-7849	3.6	43
20	Crustal and uppermost mantle structure in the central U.S. encompassing the Midcontinent Rift. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 4325-4344	3.6	39
19	Seismic evidence for lithospheric foundering beneath the southern Transantarctic Mountains, Antarctica. <i>Geology</i> , <b>2018</b> , 46, 71-74	5	32
18	Origins of topography in the western U.S.: Mapping crustal and upper mantle density variations using a uniform seismic velocity model. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 2375-2398	3.6	31
17	On the reliability of attenuation measurements from ambient noise cross-correlations. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	30
16	Crustal layering in northeastern Tibet: a case study based on joint inversion of receiver functions and surface wave dispersion. <i>Geophysical Journal International</i> , <b>2015</b> , 203, 692-706	2.6	29

15	Tomography of Southern California Via Bayesian Joint Inversion of Rayleigh Wave Ellipticity and Phase Velocity From Ambient Noise Cross-Correlations. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 9933-9949	3.6	25
14	A Geothermal Heat Flux Map of Antarctica Empirically Constrained by Seismic Structure. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL086955	4.9	24
13	Seismic evidence for lithospheric modification associated with intracontinental volcanism in Northeastern China. <i>Geophysical Journal International</i> , <b>2016</b> , 204, 215-235	2.6	24
12	Shear Velocity Model of Alaska Via Joint Inversion of Rayleigh Wave Ellipticity, Phase Velocities, and Receiver Functions Across the Alaska Transportable Array. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018582	3.6	22
11	Surface wave tomography on a large-scale seismic array combining ambient noise and teleseismic earthquake data. <i>Earthquake Science</i> , <b>2011</b> , 24, 55-64	1.5	20
10	Crustal and uppermost mantle shear velocity structure adjacent to the Juan de Fuca Ridge from ambient seismic noise. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 3221-3233	3.6	19
9	The distribution and composition of high-velocity lower crust across the continental U.S.: Comparison of seismic and xenolith data and implications for lithospheric dynamics and history. <i>Tectonics</i> , <b>2017</b> , 36, 1455-1496	4.3	15
8	Direct Inversion for Three-Dimensional Shear Wave Speed Azimuthal Anisotropy Based on Surface Wave Ray Tracing: Methodology and Application to Yunnan, Southwest China. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 11394-11413	3.6	12
7	Upper mantle structure of the Tonga-Lau-Fiji region from Rayleigh wave tomography. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 4705-4724	3.6	8
6	The seismic structure of the Antarctic upper mantle. <i>Geological Society Memoir</i> , M56-2020-18	0.4	8
5	Crustal anisotropy across eastern Tibet and surroundings modeled as a depth-dependent tilted hexagonally symmetric medium. <i>Geophysical Journal International</i> , <b>2017</b> , ggx004	2.6	7
4	High-resolution Vs tomography of South China by joint inversion of body wave and surface wave data. <i>Tectonophysics</i> , <b>2022</b> , 824, 229228	3.1	4
3	USTClitho2.0: Updated Unified Seismic Tomography Models for Continental China Lithosphere from Joint Inversion of Body-Wave Arrival Times and Surface-Wave Dispersion Data. <i>Seismological Research Letters</i> ,	3	4
2	Three-Dimensional Crustal Structures of the Shanxi Rift Constructed by Rayleigh Wave Dispersion Curves and Ellipticity: Implication for Sedimentation, Intraplate Volcanism, and Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2020JB020146	3.6	3
1	Repeating Nontectonic Seasonal Stress Changes and a Possible Triggering Mechanism of the 2019 Ridgecrest Earthquake Sequence in California. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB022188	3.6	1