Weisen Shen

List of Publications by Year in Descending Order

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	High-resolution Vs tomography of South China by joint inversion of body wave and surface wave data. *Tectonophysics*, **2022**, 824, 229228	3.1	4
31	Repeating Nontectonic Seasonal Stress Changes and a Possible Triggering Mechanism of the 2019 Ridgecrest Earthquake Sequence in California. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB022188	3.6	1
30	A Geothermal Heat Flux Map of Antarctica Empirically Constrained by Seismic Structure. *Geophysical Research Letters*, **2020**, 47, e2020GL086955	4.9	24
29	Shear Velocity Model of Alaska Via Joint Inversion of Rayleigh Wave Ellipticity, Phase Velocities, and Receiver Functions Across the Alaska Transportable Array. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB018582	3.6	22
28	Three-Dimensional Crustal Structures of the Shanxi Rift Constructed by Rayleigh Wave Dispersion Curves and Ellipticity: Implication for Sedimentation, Intraplate Volcanism, and Seismicity. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2020JB020146	3.6	3
27	Direct Inversion for Three-Dimensional Shear Wave Speed Azimuthal Anisotropy Based on Surface Wave Ray Tracing: Methodology and Application to Yunnan, Southwest China. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 11394-11413	3.6	12
26	The Crust and Upper Mantle Structure of Central and West Antarctica From Bayesian Inversion of Rayleigh Wave and Receiver Functions. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 7824-7849	3.6	43
25	Seismic evidence for lithospheric foundering beneath the southern Transantarctic Mountains, Antarctica. *Geology*, **2018**, 46, 71-74	5	32
24	Tomography of Southern California Via Bayesian Joint Inversion of Rayleigh Wave Ellipticity and Phase Velocity From Ambient Noise Cross-Correlations. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 9933-9949	3.6	25
23	Water input into the Mariana subduction zone estimated from ocean-bottom seismic data. *Nature*, **2018**, 563, 389-392	50.4	92
22	Crustal anisotropy across eastern Tibet and surroundings modeled as a depth-dependent tilted hexagonally symmetric medium. *Geophysical Journal International*, **2017**, ggx004	2.6	7
21	A one-dimensional seismic model for Uturuncu volcano, Bolivia, and its impact on full moment tensor inversions **2017**, 13, 1-10		45
20	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. *Tectonics*, **2017**, 36, 1455-1496	4.3	15
19	Upper mantle structure of the Tonga-Lau-Fiji region from Rayleigh wave tomography. *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 4705-4724	3.6	8
18	A seismic reference model for the crust and uppermost mantle beneath China from surface wave dispersion. *Geophysical Journal International*, **2016**, 206, 954-979	2.6	154
17	Crustal and uppermost mantle structure beneath the United States. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 4306-4342	3.6	187
16	Seismic evidence for lithospheric modification associated with intracontinental volcanism in Northeastern China. *Geophysical Journal International*, **2016**, 204, 215-235	2.6	24

15	Crustal layering in northeastern Tibet: a case study based on joint inversion of receiver functions and surface wave dispersion. *Geophysical Journal International*, **2015**, 203, 692-706	2.6	29
14	Origins of topography in the western U.S.: Mapping crustal and upper mantle density variations using a uniform seismic velocity model. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 2375-2396	3.6	31
13	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. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 262-276	3.6	165
12	Crustal radial anisotropy across Eastern Tibet and the Western Yangtze Craton. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 4226-4252	3.6	89
11	Joint inversion of surface wave dispersion and receiver functions: a Bayesian Monte-Carlo approach. *Geophysical Journal International*, **2013**, 192, 807-836	2.6	154
10	Crustal and uppermost mantle shear velocity structure adjacent to the Juan de Fuca Ridge from ambient seismic noise. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 3221-3233	3.6	19
9	Crustal and uppermost mantle structure in the central U.S. encompassing the Midcontinent Rift. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 4325-4344	3.6	39
8	The structure of the crust and uppermost mantle beneath South China from ambient noise and earthquake tomography. *Geophysical Journal International*, **2012**, 189, 1565-1583	2.6	119
7	A synoptic view of the distribution and connectivity of the mid-crustal low velocity zone beneath Tibet. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		158
6	On the reliability of attenuation measurements from ambient noise cross-correlations. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	30
5	Ambient noise tomography with a large seismic array. *Comptes Rendus - Geoscience*, **2011**, 343, 558-570	1.4	87
4	Crust and uppermost mantle beneath the North China Craton, northeastern China, and the Sea of Japan from ambient noise tomography. *Journal of Geophysical Research*, **2011**, 116,		117
3	Surface wave tomography on a large-scale seismic array combining ambient noise and teleseismic earthquake data. *Earthquake Science*, **2011**, 24, 55-64	1.5	20
2	The seismic structure of the Antarctic upper mantle. *Geological Society Memoir*,M56-2020-18	0.4	8
1	USTClitho2.0: Updated Unified Seismic Tomography Models for Continental China Lithosphere from Joint Inversion of Body-Wave Arrival Times and Surface-Wave Dispersion Data. *Seismological Research Letters*,	3	4