

# Yang Shen

## List of Publications by Citations

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65  
papers

2,531  
citations

28  
h-index

49  
g-index

68  
ext. papers

2,816  
ext. citations

6.2  
avg. IF

5.03  
L-index

#	Paper	IF	Citations
65	Seismic evidence for a lower-mantle origin of the Iceland plume. <i>Nature</i> , <b>1998</b> , 395, 62-65	50.4	197
64	Phase velocities of rayleigh waves in the MELT experiment on the east pacific rise. <i>Science</i> , <b>1998</b> , 280, 1235-8	33.3	181
63	Geochemical constraints on initial and final depths of melting beneath mid-ocean ridges. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 2211-2237		181
62	Mantle flow, melting, and dehydration of the Iceland mantle plume. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 165, 81-96	5.3	164
61	Unsplit complex frequency-shifted PML implementation using auxiliary differential equations for seismic wave modeling. <i>Geophysics</i> , <b>2010</b> , 75, T141-T154	3.1	118
60	Upper mantle structure beneath the Azores hotspot from finite-frequency seismic tomography. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 250, 11-26	5.3	98
59	Imaging seismic velocity structure beneath the Iceland hot spot: A finite frequency approach. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		96
58	A complex Tibetan upper mantle: A fragmented Indian slab and no south-verging subduction of Eurasian lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 333-334, 101-111	5.3	91
57	The distribution of the mid-to-lower crustal low-velocity zone beneath the northeastern Tibetan Plateau revealed from ambient noise tomography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 1954-1970	3.6	75
56	Seismic evidence for a tilted mantle plume and north-south mantle flow beneath Iceland. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 197, 261-272	5.3	70
55	Seismic evidence for a Moho offset and south-directed thrust at the easternmost Qaidam-Kunlun boundary in the Northeast Tibetan plateau. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 288, 329-334	5.3	62
54	The effects of temperature- and pressure-dependent viscosity on three-dimensional passive flow of the mantle beneath a ridge-transform System. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 19717		61
53	Upper mantle structure of the Cascades from full-wave ambient noise tomography: Evidence for 3D mantle upwelling in the back-arc. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 390, 222-233	5.3	59
52	Finite frequency tomography in southeastern Tibet: Evidence for the causal relationship between mantle lithosphere delamination and the north-south trending rifts. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		58
51	Mantle discontinuity structure beneath the southern east pacific rise from P-to-S converted phases. <i>Science</i> , <b>1998</b> , 280, 1232-5	33.3	58
50	Two forms of volcanism: Implications for mantle flow and off-axis crustal production on the west flank of the southern East Pacific Rise. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 17875-17889		56
49	Upper mantle structures beneath the Carpathian-Bannonian region: Implications for the geodynamics of continental collision. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 349-350, 139-152	5.3	50

48	Abundant seamounts of the Rano Rahi seamount field near the Southern East Pacific Rise, 15°S to 19°S. <i>Marine Geophysical Researches</i> , <b>1996</b> , 18, 13-52	2.3	50
47	An Improved Method to Extract Very-Broadband Empirical Green's Functions from Ambient Seismic Noise. <i>Bulletin of the Seismological Society of America</i> , <b>2012</b> , 102, 1872-1877	2.3	47
46	Three-dimensional anisotropic seismic wave modelling in spherical coordinates by a collocated-grid finite-difference method. <i>Geophysical Journal International</i> , <b>2012</b> , 188, 1359-1381	2.6	46
45	Seismic evidence for accumulated oceanic crust above the 660-km discontinuity beneath southern Africa. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	40
44	Hot mantle transition zone beneath Iceland and the adjacent Mid-Atlantic Ridge inferred from P-to-S conversions at the 410- and 660-km discontinuities. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 3527-3530	4.9	40
43	Trade-off in production between adjacent seamount chains near the East Pacific Rise. <i>Nature</i> , <b>1995</b> , 373, 140-143	5.4	37
42	Thermal, hydrous, and mechanical states of the mantle transition zone beneath southern Africa. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 217, 367-378	5.3	36
41	Seismological evidence for a mid-mantle discontinuity beneath Hawaii and Iceland. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 214, 143-151	5.3	34
40	Wave speed structure of the eastern North American margin. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 459, 394-405	5.3	31
39	High resolution regional seismic attenuation tomography in eastern Tibetan Plateau and adjacent regions. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	29
38	Mesoscale convective system surface pressure anomalies responsible for meteotsunamis along the U.S. East Coast on June 13th, 2013. <i>Scientific Reports</i> , <b>2014</b> , 4, 7143	4.9	28
37	Seismic evidence for significant melt beneath the Long Valley Caldera, California, USA. <i>Geology</i> , <b>2018</b> , 46, 799-802	5	27
36	Crustal and mantle velocity models of southern Tibet from finite frequency tomography. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		26
35	Upper Mantle Earth Structure in Africa From Full-Wave Ambient Noise Tomography. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 120-147	3.6	26
34	Shear wave structure in the northeastern Tibetan Plateau from Rayleigh wave tomography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 4170-4183	3.6	25
33	Finite-frequency sensitivity kernels for head waves. <i>Geophysical Journal International</i> , <b>2007</b> , 171, 847-856.	6	25
32	Numerical simulation of strong ground motion for the M 8.0 Wenchuan earthquake of 12 May 2008. <i>Science in China Series D: Earth Sciences</i> , <b>2008</b> , 51, 1673-1682		25
31	Seismic wave speed structure of the Ontong Java Plateau. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 420, 140-150	5.3	24

30	Investigation of microearthquake activity following an intraplate teleseismic swarm on the west flank of the Southern East Pacific Rise. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 459-475		24
29	Crustal and upper mantle structure beneath the northeastern Tibetan Plateau from joint analysis of receiver functions and Rayleigh wave dispersions. <i>Geophysical Journal International</i> , <b>2016</b> , 204, 583-590	2.6	19
28	Imaging Rayleigh wave attenuation with USArray. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 241-259	2.6	19
27	Cross-dependence of finite-frequency compressional waveforms to shear seismic wave speeds. <i>Geophysical Journal International</i> , <b>2008</b> , 174, 941-948	2.6	18
26	A Preliminary Full-Wave Ambient-Noise Tomography Model Spanning from the Juan de Fuca and Gorda Spreading Centers to the Cascadia Volcanic Arc. <i>Seismological Research Letters</i> , <b>2015</b> , 86, 1253-1260	2.6	17
25	Seismic evidence for a possible deep crustal hot zone beneath Southwest Washington. <i>Scientific Reports</i> , <b>2017</b> , 7, 7400	4.9	15
24	Validation of Shear-Wave Velocity Models of the Pacific Northwest. <i>Bulletin of the Seismological Society of America</i> , <b>2012</b> , 102, 2611-2621	2.3	15
23	Frequency-Dependent Crustal Correction for Finite-Frequency Seismic Tomography. <i>Bulletin of the Seismological Society of America</i> , <b>2006</b> , 96, 2441-2448	2.3	15
22	Coupled seismic slip on adjacent oceanic transform faults. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	13
21	Crustal Velocity Structure of the Northeastern Tibetan Plateau from Ambient Noise Surface-Wave Tomography and Its Tectonic Implications. <i>Bulletin of the Seismological Society of America</i> , <b>2014</b> , 104, 1045-1055	2.3	10
20	Azimuthal anisotropy of Lg attenuation in eastern Tibetan Plateau. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		10
19	P-wave velocity structure of the crust and uppermost mantle beneath Iceland from local earthquake tomography. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 235, 597-609	5.3	10
18	Three-Dimensional Passive-Source Reverse-Time Migration of Converted Waves: The Method. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 1419-1434	3.6	9
17	A Cost-Effective Geodetic Strainmeter Based on Dual Coaxial Cable Bragg Gratings. <i>Sensors</i> , <b>2017</b> , 17,	3.8	8
16	Validation of recent shear wave velocity models in the United States with full-wave simulation. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 344-358	3.6	6
15	Seismicity at the southern East Pacific Rise from recordings of an ocean bottom seismometer array. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, EPM 9-1-EPM 9-11		6
14	Growth of the northeastern margin of the Tibetan Plateau by squeezing up of the crust at the boundaries. <i>Scientific Reports</i> , <b>2017</b> , 7, 10591	4.9	5
13	Array-Based Convolutional Neural Networks for Automatic Detection and 4D Localization of Earthquakes in Hawaii. <i>Seismological Research Letters</i> , <b>2021</b> , 92, 2961-2971	3	5

12	Accurate source location from waves scattered by surface topography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 4538-4552	3.6	5
11	Full-Waveform Sensitivity Kernels of Component-Differential Traveltimes and ZH Amplitude Ratios for Velocity and Density Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 4829-4840	3.6	5
10	Initial rupture processes of the 2008 Mw7.9 Wenchuan, China earthquake: From near-source seismic records. <i>Journal of Asian Earth Sciences</i> , <b>2019</b> , 173, 397-403	2.8	4
9	Effects of seasonal changes in ambient noise sources on monitoring temporal variations in crustal properties. <i>Journal of Seismology</i> , <b>2015</b> , 19, 781-790	1.5	4
8	Early-Stage Lithospheric Foundering Beneath the Eastern Tibetan Plateau Revealed by Full-Wave Pn Tomography. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086469	4.9	3
7	Modeling Three-Dimensional Wave Propagation in Anelastic Models With Surface Topography by the Optimal Strong Stability Preserving Runge-Kutta Method. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 890-907	3.6	3
6	Component-Dependent Frechet Sensitivity Kernels and Utility of Three-Component Seismic Records. <i>Bulletin of the Seismological Society of America</i> , <b>2008</b> , 98, 2517-2525	2.3	3
5	An OBS Array to Investigate Offshore Seismicity during the 2018 Kilauea Eruption. <i>Seismological Research Letters</i> , <b>2021</b> , 92, 603-612	3	3
4	Detecting Slow Slip Events From Seafloor Pressure Data Using Machine Learning. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087579	4.9	2
3	Location and moment tensor inversion of small earthquakes using 3D Green's functions in models with rugged topography: application to the Longmenshan fault zone. <i>Earthquake Science</i> , <b>2016</b> , 29, 139-151	1.5	2
2	Assessing waveform predictions of recent three-dimensional velocity models of the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 2521-2538	3.6	2
1	Locating Shallow Seismic Sources With Waves Scattered by Surface Topography: Validation of the Method at the Nevada Test Site. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 7040-7051	3.6	