Yang Shen

List of Publications by Year
in descending order

67 papers	3,114 citations	147801 31 h-index	155660 55 g-index
68 all docs	68 docs citations	68 times ranked	2307 citing authors

#	Article	IF	Citations
1	An Improved Earthquake Catalog During the 2018 KÄ±Ì„lauea Eruption From Combined Onshore and Offshore Seismic Arrays. Earth and Space Science, 2022, 9, .	2.6	2
2	An OBS Array to Investigate Offshore Seismicity during the 2018ÂKÄ«lauea Eruption. Seismological Research Letters, 2021, 92, 603-612.	1.9	6
3	Array-Based Convolutional Neural Networks for Automatic Detection and 4D Localization of Earthquakes in Hawaiâ€˜i. Seismological Research Letters, 2021, 92, 2961-2971.	1.9	17
4	Compositional Variation in the Crust of Peninsular Ranges and Surrounding Regions, Southern California, Revealed by Fullâ€Wave Seismic and Gravity Joint Inversion. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	4
5	Detecting Slow Slip Events From Seafloor Pressure Data Using Machine Learning. Geophysical Research Letters, 2020, 47, e2020GL087579.	4.0	10
6	Earlyâ€Stage Lithospheric Foundering Beneath the Eastern Tibetan Plateau Revealed by Fullâ€Wave <i>P</i>_n Tomography. Geophysical Research Letters, 2020, 47, e2019GL086469.	4.0	9
7	Modeling Threeâ€Dimensional Wave Propagation in Anelastic Models With Surface Topography by the Optimal Strong Stability Preserving Rungeâ€Kutta Method. Journal of Geophysical Research: Solid Earth, 2019, 124, 890-907.	3.4	9
8	Locating Shallow Seismic Sources With Waves Scattered by Surface Topography: Validation of the Method at the Nevada Test Site. Journal of Geophysical Research: Solid Earth, 2019, 124, 7040-7051.	3.4	0
9	Initial rupture processes of the 2008 Mw7.9 Wenchuan, China earthquake: From near-source seismic records. Journal of Asian Earth Sciences, 2019, 173, 397-403.	2.3	5
10	Upper Mantle Earth Structure in Africa From Fullâ€Wave Ambient Noise Tomography. Geochemistry, Geophysics, Geosystems, 2019, 20, 120-147.	2.5	55
11	Threeâ€Dimensional Passiveâ€Source Reverseâ€Time Migration of Converted Waves: The Method. Journal of Geophysical Research: Solid Earth, 2018, 123, 1419-1434.	3.4	14
12	Seismic evidence for significant melt beneath the Long Valley Caldera, California, USA. Geology, 2018, 46, 799-802.	4.4	42
13	Fullâ€Waveform Sensitivity Kernels of Componentâ€Differential Traveltimes and ZH Amplitude Ratios for Velocity and Density Tomography. Journal of Geophysical Research: Solid Earth, 2018, 123, 4829-4840.	3.4	9
14	Wave speed structure of the eastern North American margin. Earth and Planetary Science Letters, 2017, 459, 394-405.	4.4	37
15	Growth of the northeastern margin of the Tibetan Plateau by squeezing up of the crust at the boundaries. Scientific Reports, 2017, 7, 10591.	3.3	11
16	Seismic evidence for a possible deep crustal hot zone beneath Southwest Washington. Scientific Reports, 2017, 7, 7400.	3.3	25
17	A Cost-Effective Geodetic Strainmeter Based on Dual Coaxial Cable Bragg Gratings. Sensors, 2017, 17, 842.	3.8	11
18	Accurate source location from waves scattered by surface topography. Journal of Geophysical Research: Solid Earth, 2016, 121, 4538-4552.	3.4	6

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19	Assessing waveform predictions of recent threeâ€dimensional velocity models of the Tibetan Plateau. Journal of Geophysical Research: Solid Earth, 2016, 121, 2521-2538.	3.4	5
20	Imaging Rayleigh wave attenuation with USArray. Geophysical Journal International, 2016, 206, 241-259.	2.4	27
21	Location and moment tensor inversion of small earthquakes using 3D Greenâ€™s functions in models with rugged topography: application to the Longmenshan fault zone. Earthquake Science, 2016, 29, 139-151.	0.9	5
22	Crustal and upper mantle structure beneath the northeastern Tibetan Plateau from joint analysis of receiver functions and Rayleigh wave dispersions. Geophysical Journal International, 2016, 204, 583-590.	2.4	29
23	Validation of recent shear wave velocity models in the United States with fullâ€wave simulation. Journal of Geophysical Research: Solid Earth, 2015, 120, 344-358.	3.4	13
24	Seismic wave speed structure of the Ontong Java Plateau. Earth and Planetary Science Letters, 2015, 420, 140-150.	4.4	31
25	Effects of seasonal changes in ambient noise sources on monitoring temporal variations in crustal properties. Journal of Seismology, 2015, 19, 781-790.	1.3	4
26	A Preliminary Fullâ€Wave Ambientâ€Noise Tomography Model Spanning from the Juan de Fuca and Gorda Spreading Centers to the Cascadia Volcanic Arc. Seismological Research Letters, 2015, 86, 1253-1260.	1.9	20
27	Crustal Velocity Structure of the Northeastern Tibetan Plateau from Ambient Noise Surface-Wave Tomography and Its Tectonic Implications. Bulletin of the Seismological Society of America, 2014, 104, 1045-1055.	2.3	12
28	The distribution of the midâ€toâ€lower crustal lowâ€velocity zone beneath the northeastern Tibetan Plateau revealed from ambient noise tomography. Journal of Geophysical Research: Solid Earth, 2014, 119, 1954-1970.	3.4	97
29	Upper mantle structure of the Cascades from full-wave ambient noise tomography: Evidence for 3D mantle upwelling in the back-arc. Earth and Planetary Science Letters, 2014, 390, 222-233.	4.4	73
30	Mesoscale convective system surface pressure anomalies responsible for meteotsunamis along the U.S. East Coast on June 13th, 2013. Scientific Reports, 2014, 4, 7143.	3.3	39
31	Shear wave structure in the northeastern Tibetan Plateau from Rayleigh wave tomography. Journal of Geophysical Research: Solid Earth, 2013, 118, 4170-4183.	3.4	34
32	An Improved Method to Extract Very-Broadband Empirical Green's Functions from Ambient Seismic Noise. Bulletin of the Seismological Society of America, 2012, 102, 1872-1877.	2.3	65
33	Validation of Shear-Wave Velocity Models of the Pacific Northwest. Bulletin of the Seismological Society of America, 2012, 102, 2611-2621.	2.3	20
34	A complex Tibetan upper mantle: A fragmented Indian slab and no south-verging subduction of Eurasian lithosphere. Earth and Planetary Science Letters, 2012, 333-334, 101-111.	4.4	117
35	Upper mantle structures beneath the Carpathianâ€“Pannonian region: Implications for the geodynamics of continental collision. Earth and Planetary Science Letters, 2012, 349-350, 139-152.	4.4	66
36	Azimuthal anisotropy of <i>Lg</i> attenuation in eastern Tibetan Plateau. Journal of Geophysical Research, 2012, 117, .	3.3	13

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37	Three-dimensional anisotropic seismic wave modelling in spherical coordinates by a collocated-grid finite-difference method. Geophysical Journal International, 2012, 188, 1359-1381.	2.4	66
38	Crustal and mantle velocity models of southern Tibet from finite frequency tomography. Journal of Geophysical Research, 2011, 116, .	3.3	28
39	High resolution regional seismic attenuation tomography in eastern Tibetan Plateau and adjacent regions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	43
40	Unsplit complex frequency-shifted PML implementation using auxiliary differential equations for seismic wave modeling. Geophysics, 2010, 75, T141-T154.	2.6	168
41	Seismic evidence for a Moho offset and south-directed thrust at the easternmost Qaidamâ€“Kunlun boundary in the Northeast Tibetan plateau. Earth and Planetary Science Letters, 2009, 288, 329-334.	4.4	67
42	Numerical simulation of strong ground motion for the M s8.0 Wenchuan earthquake of 12 May 2008. Science in China Series D: Earth Sciences, 2008, 51, 1673-1682.	0.9	41
43	Cross-dependence of finite-frequency compressional waveforms to shear seismic wave speeds. Geophysical Journal International, 2008, 174, 941-948.	2.4	21
44	Finite frequency tomography in southeastern Tibet: Evidence for the causal relationship between mantle lithosphere delamination and the northâ€“south trending rifts. Journal of Geophysical Research, 2008, 113, .	3.3	71
45	Component-Dependent Frechet Sensitivity Kernels and Utility of Three-Component Seismic Records. Bulletin of the Seismological Society of America, 2008, 98, 2517-2525.	2.3	4
46	Finite-frequency sensitivity kernels for head waves. Geophysical Journal International, 2007, 171, 847-856.	2.4	29
47	Upper mantle structure beneath the Azores hotspot from finite-frequency seismic tomography. Earth and Planetary Science Letters, 2006, 250, 11-26.	4.4	116
48	Frequency-Dependent Crustal Correction for Finite-Frequency Seismic Tomography. Bulletin of the Seismological Society of America, 2006, 96, 2441-2448.	2.3	18
49	P-wave velocity structure of the crust and uppermost mantle beneath Iceland from local earthquake tomography. Earth and Planetary Science Letters, 2005, 235, 597-609.	4.4	11
50	Imaging seismic velocity structure beneath the Iceland hot spot: A finite frequency approach. Journal of Geophysical Research, 2004, 109, .	3.3	109
51	Thermal, hydrous, and mechanical states of the mantle transition zone beneath southern Africa. Earth and Planetary Science Letters, 2004, 217, 367-378.	4.4	39
52	Coupled seismic slip on adjacent oceanic transform faults. Geophysical Research Letters, 2003, 30, .	4.0	16
53	Seismic evidence for accumulated oceanic crust above the 660-km discontinuity beneath southern Africa. Geophysical Research Letters, 2003, 30, .	4.0	44
54	Seismological evidence for a mid-mantle discontinuity beneath Hawaii and Iceland. Earth and Planetary Science Letters, 2003, 214, 143-151.	4.4	36

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55	Seismicity at the southern East Pacific Rise from recordings of an ocean bottom seismometer array. Journal of Geophysical Research, 2002, 107, EPM 9-1-EPM 9-11.	3.3	10
56	Seismic evidence for a tilted mantle plume and northâ€“south mantle flow beneath Iceland. Earth and Planetary Science Letters, 2002, 197, 261-272.	4.4	76
57	Mantle flow, melting, and dehydration of the Iceland mantle plume. Earth and Planetary Science Letters, 1999, 165, 81-96.	4.4	172
58	Seismic evidence for a lower-mantle origin of the Iceland plume. Nature, 1998, 395, 62-65.	27.8	214
59	Mantle Discontinuity Structure Beneath the Southern East Pacific Rise from P-to-S Converted Phases. Science, 1998, 280, 1232-1235.	12.6	61
60	Phase Velocities of Rayleigh Waves in the MELT Experiment on the East Pacific Rise. Science, 1998, 280, 1235-1238.	12.6	197
61	Investigation of microearthquake activity following an intraplate teleseismic swarm on the west flank of the Southern East Pacific Rise. Journal of Geophysical Research, 1997, 102, 459-475.	3.3	30
62	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. Geophysical Research Letters, 1996, 23, 3527-3530.	4.0	43
63	Abundant seamounts of the Rano Rahi seamount field near the Southern East Pacific Rise, 15ï¿½ S to 19ï¿½ S. Marine Geophysical Researches, 1996, 18, 13-52.	1.2	55
64	Trade-off in production between adjacent seamount chains near the East Pacific Rise. Nature, 1995, 373, 140-143.	27.8	39
65	Geochemical constraints on initial and final depths of melting beneath mid-ocean ridges. Journal of Geophysical Research, 1995, 100, 2211-2237.	3.3	216
66	Two forms of volcanism: Implications for mantle flow and offâ€axis crustal production on the west flank of the southern East Pacific Rise. Journal of Geophysical Research, 1993, 98, 17875-17889.	3.3	62
67	The effects of temperatureâ€and pressureâ€dependent viscosity on threeâ€dimensional passive flow of the mantle beneath a ridgeâ€transform System. Journal of Geophysical Research, 1992, 97, 19717-19728.	3.3	70