

Yang Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Array-Based Convolutional Neural Networks for Automatic Detection and 4D Localization of Earthquakes in Hawaii. <i>Seismological Research Letters</i> , 2021 , 92, 2961-2971	3	5
64	An OBS Array to Investigate Offshore Seismicity during the 2018 Kilauea Eruption. <i>Seismological Research Letters</i> , 2021 , 92, 603-612	3	3
63	Detecting Slow Slip Events From Seafloor Pressure Data Using Machine Learning. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087579	4.9	2
62	Early-Stage Lithospheric Foundering Beneath the Eastern Tibetan Plateau Revealed by Full-Wave Pn Tomography. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086469	4.9	3
61	Initial rupture processes of the 2008 Mw7.9 Wenchuan, China earthquake: From near-source seismic records. <i>Journal of Asian Earth Sciences</i> , 2019 , 173, 397-403	2.8	4
60	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> , 2019 , 124, 890-907	3.6	3
59	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> , 2019 , 124, 7040-7051	3.6	
58	Upper Mantle Earth Structure in Africa From Full-Wave Ambient Noise Tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 120-147	3.6	26
57	Three-Dimensional Passive-Source Reverse-Time Migration of Converted Waves: The Method. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 1419-1434	3.6	9
56	Seismic evidence for significant melt beneath the Long Valley Caldera, California, USA. <i>Geology</i> , 2018 , 46, 799-802	5	27
55	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> , 2018 , 123, 4829-4840	3.6	5
54	Wave speed structure of the eastern North American margin. <i>Earth and Planetary Science Letters</i> , 2017 , 459, 394-405	5.3	31
53	Growth of the northeastern margin of the Tibetan Plateau by squeezing up of the crust at the boundaries. <i>Scientific Reports</i> , 2017 , 7, 10591	4.9	5
52	Seismic evidence for a possible deep crustal hot zone beneath Southwest Washington. <i>Scientific Reports</i> , 2017 , 7, 7400	4.9	15
51	A Cost-Effective Geodetic Strainmeter Based on Dual Coaxial Cable Bragg Gratings. <i>Sensors</i> , 2017 , 17,	3.8	8
50	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> , 2016 , 29, 139-151	1.5	2
49	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> , 2016 , 204, 583-590	2.6	19

48	Accurate source location from waves scattered by surface topography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 4538-4552	3.6	5
47	Assessing waveform predictions of recent three-dimensional velocity models of the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 2521-2538	3.6	2
46	Imaging Rayleigh wave attenuation with USArray. <i>Geophysical Journal International</i> , 2016 , 206, 241-259	2.6	19
45	Seismic wave speed structure of the Ontong Java Plateau. <i>Earth and Planetary Science Letters</i> , 2015 , 420, 140-150	5.3	24
44	Effects of seasonal changes in ambient noise sources on monitoring temporal variations in crustal properties. <i>Journal of Seismology</i> , 2015 , 19, 781-790	1.5	4
43	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> , 2015 , 86, 1253-1260	2.0	17
42	Validation of recent shear wave velocity models in the United States with full-wave simulation. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 344-358	3.6	6
41	Mesoscale convective system surface pressure anomalies responsible for meteotsunamis along the U.S. East Coast on June 13th, 2013. <i>Scientific Reports</i> , 2014 , 4, 7143	4.9	28
40	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> , 2014 , 390, 222-233	5.3	59
39	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> , 2014 , 104, 1045-1055	2.3	10
38	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> , 2014 , 119, 1954-1970	3.6	75
37	Shear wave structure in the northeastern Tibetan Plateau from Rayleigh wave tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 4170-4183	3.6	25
36	An Improved Method to Extract Very-Broadband Empirical Green's Functions from Ambient Seismic Noise. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 1872-1877	2.3	47
35	Validation of Shear-Wave Velocity Models of the Pacific Northwest. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 2611-2621	2.3	15
34	A complex Tibetan upper mantle: A fragmented Indian slab and no south-verging subduction of Eurasian lithosphere. <i>Earth and Planetary Science Letters</i> , 2012 , 333-334, 101-111	5.3	91
33	Upper mantle structures beneath the Carpathian-Bannonian region: Implications for the geodynamics of continental collision. <i>Earth and Planetary Science Letters</i> , 2012 , 349-350, 139-152	5.3	50
32	Azimuthal anisotropy of Lg attenuation in eastern Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2012 , 117,		10
31	Three-dimensional anisotropic seismic wave modelling in spherical coordinates by a collocated-grid finite-difference method. <i>Geophysical Journal International</i> , 2012 , 188, 1359-1381	2.6	46

30	Crustal and mantle velocity models of southern Tibet from finite frequency tomography. <i>Journal of Geophysical Research</i> , 2011 , 116,		26
29	High resolution regional seismic attenuation tomography in eastern Tibetan Plateau and adjacent regions. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	29
28	Unsplit complex frequency-shifted PML implementation using auxiliary differential equations for seismic wave modeling. <i>Geophysics</i> , 2010 , 75, T141-T154	3.1	118
27	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> , 2009 , 288, 329-334	5.3	62
26	Cross-dependence of finite-frequency compressional waveforms to shear seismic wave speeds. <i>Geophysical Journal International</i> , 2008 , 174, 941-948	2.6	18
25	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> , 2008 , 113,		58
24	Component-Dependent Frechet Sensitivity Kernels and Utility of Three-Component Seismic Records. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 2517-2525	2.3	3
23	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> , 2008 , 51, 1673-1682		25
22	Finite-frequency sensitivity kernels for head waves. <i>Geophysical Journal International</i> , 2007 , 171, 847-856	6.6	25
21	Frequency-Dependent Crustal Correction for Finite-Frequency Seismic Tomography. <i>Bulletin of the Seismological Society of America</i> , 2006 , 96, 2441-2448	2.3	15
20	Upper mantle structure beneath the Azores hotspot from finite-frequency seismic tomography. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 11-26	5.3	98
19	P-wave velocity structure of the crust and uppermost mantle beneath Iceland from local earthquake tomography. <i>Earth and Planetary Science Letters</i> , 2005 , 235, 597-609	5.3	10
18	Imaging seismic velocity structure beneath the Iceland hot spot: A finite frequency approach. <i>Journal of Geophysical Research</i> , 2004 , 109,		96
17	Thermal, hydrous, and mechanical states of the mantle transition zone beneath southern Africa. <i>Earth and Planetary Science Letters</i> , 2004 , 217, 367-378	5.3	36
16	Coupled seismic slip on adjacent oceanic transform faults. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	13
15	Seismic evidence for accumulated oceanic crust above the 660-km discontinuity beneath southern Africa. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	40
14	Seismological evidence for a mid-mantle discontinuity beneath Hawaii and Iceland. <i>Earth and Planetary Science Letters</i> , 2003 , 214, 143-151	5.3	34
13	Seismicity at the southern East Pacific Rise from recordings of an ocean bottom seismometer array. <i>Journal of Geophysical Research</i> , 2002 , 107, EPM 9-1-EPM 9-11		6

12	Seismic evidence for a tilted mantle plume and north-south mantle flow beneath Iceland. <i>Earth and Planetary Science Letters</i> , 2002 , 197, 261-272	5.3	70
11	Mantle flow, melting, and dehydration of the Iceland mantle plume. <i>Earth and Planetary Science Letters</i> , 1999 , 165, 81-96	5.3	164
10	Seismic evidence for a lower-mantle origin of the Iceland plume. <i>Nature</i> , 1998 , 395, 62-65	50.4	197
9	Mantle discontinuity structure beneath the southern east pacific rise from P-to-S converted phases. <i>Science</i> , 1998 , 280, 1232-5	33.3	58
8	Phase velocities of rayleigh waves in the MELT experiment on the east pacific rise. <i>Science</i> , 1998 , 280, 1235-8	33.3	181
7	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> , 1997 , 102, 459-475		24
6	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> , 1996 , 23, 3527-3530	4.9	40
5	Abundant seamounts of the Rano Rahi seamount field near the Southern East Pacific Rise, 15°S to 19°S. <i>Marine Geophysical Researches</i> , 1996 , 18, 13-52	2.3	50
4	Trade-off in production between adjacent seamount chains near the East Pacific Rise. <i>Nature</i> , 1995 , 373, 140-143	50.4	37
3	Geochemical constraints on initial and final depths of melting beneath mid-ocean ridges. <i>Journal of Geophysical Research</i> , 1995 , 100, 2211-2237		181
2	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> , 1993 , 98, 17875-17889		56
1	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> , 1992 , 97, 19717		61