

# Hejun Zhu

## List of Publications by Citations

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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.

50  
papers

1,102  
citations

18  
h-index

32  
g-index

63  
ext. papers

1,434  
ext. citations

4.8  
avg. IF

5.08  
L-index

#	Paper	IF	Citations
50	Structure of the European upper mantle revealed by adjoint tomography. <i>Nature Geoscience</i> , <b>2012</b> , 5, 493-498	18.3	199
49	Seismic structure of the European upper mantle based on adjoint tomography. <i>Geophysical Journal International</i> , <b>2015</b> , 201, 18-52	2.6	111
48	Mapping tectonic deformation in the crust and upper mantle beneath Europe and the North Atlantic Ocean. <i>Science</i> , <b>2013</b> , 341, 871-5	33.3	63
47	A Bayesian approach to estimate uncertainty for full-waveform inversion using a priori information from depth migration. <i>Geophysics</i> , <b>2016</b> , 81, R307-R323	3.1	59
46	Elastic imaging and time-lapse migration based on adjoint methods. <i>Geophysics</i> , <b>2009</b> , 74, WCA167-WCA177	3.7	59
45	Seismic attenuation beneath Europe and the North Atlantic: Implications for water in the mantle. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 381, 1-11	5.3	54
44	Near real-time simulations of global CMT earthquakes. <i>Geophysical Journal International</i> , <b>2010</b> , 183, 381-389	3.8	45
43	Elastic wavefield separation based on the Helmholtz decomposition. <i>Geophysics</i> , <b>2017</b> , 82, S173-S183	3.1	44
42	Building good starting models for full-waveform inversion using adaptive matching filtering misfit. <i>Geophysics</i> , <b>2016</b> , 81, U61-U72	3.1	41
41	Seismic wavespeed images across the Iapetus and Tornquist suture zones. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	35
40	Radial anisotropy of the North American upper mantle based on adjoint tomography with USArray. <i>Geophysical Journal International</i> , <b>2017</b> , 211, 349-377	2.6	33
39	EMIC wave parameterization in the long-term VERB code simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8488-8501	2.6	32
38	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125,	3.6	30
37	Seismic modeling and imaging based upon spectral-element and adjoint methods. <i>The Leading Edge</i> , <b>2009</b> , 28, 568-574	1	29
36	Time-domain least-squares migration using the Gaussian beam summation method. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 548-572	2.6	25
35	Full-waveform inversion using seislet regularization. <i>Geophysics</i> , <b>2017</b> , 82, A43-A49	3.1	24
34	Isotropic elastic reverse time migration using the phase- and amplitude-corrected vector P- and S-wavefields. <i>Geophysics</i> , <b>2018</b> , 83, S489-S503	3.1	24

33	A time-domain complex-valued wave equation for modelling visco-acoustic wave propagation. <i>Geophysical Journal International</i> , <b>2018</b> , 215, 1064-1079	2.6	18
32	2D isotropic elastic Gaussian-beam migration for common-shot multicomponent records. <i>Geophysics</i> , <b>2018</b> , 83, S127-S140	3.1	17
31	Elastic wavefield separation in anisotropic media based on eigenform analysis and its application in reverse-time migration. <i>Geophysical Journal International</i> , <b>2019</b> , 217, 1290-1313	2.6	15
30	Elastic least-squares reverse time migration in vertical transverse isotropic media. <i>Geophysics</i> , <b>2019</b> , 84, S539-S553	3.1	14
29	Viscoacoustic reverse time migration using a time-domain complex-valued wave equation. <i>Geophysics</i> , <b>2018</b> , 83, S505-S519	3.1	14
28	Locating and monitoring microseismicity, hydraulic fracture and earthquake rupture using elastic time-reversal imaging. <i>Geophysical Journal International</i> , <b>2019</b> , 216, 726-744	2.6	11
27	Viscoacoustic least-squares reverse time migration using a time-domain complex-valued wave equation. <i>Geophysics</i> , <b>2019</b> , 84, S479-S499	3.1	10
26	A finite-difference approach for solving pure quasi-P-wave equations in transversely isotropic and orthorhombic media. <i>Geophysics</i> , <b>2018</b> , 83, C161-C172	3.1	10
25	A practical data-driven optimization strategy for Gaussian beam migration. <i>Geophysics</i> , <b>2018</b> , 83, S81-S92	3.1	10
24	Time-Lapse Imaging of Coseismic Ruptures for the 2019 Ridgecrest Earthquakes Using Multi-azimuth Backprojection With Regional Seismic Data and a 3-D Crustal Velocity Model. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087181	4.9	8
23	Crustal wave speed structure of North Texas and Oklahoma based on ambient noise cross-correlation functions and adjoint tomography. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 716-730	2.6	8
22	Elastic Least-Squares Imaging in Tilted Transversely Isotropic Media for Multicomponent Land and Pressure Marine Data. <i>Surveys in Geophysics</i> , <b>2020</b> , 41, 805-833	7.6	7
21	Estimating P Wave Velocity and Attenuation Structures Using Full Waveform Inversion Based on a Time Domain Complex-Valued Viscoacoustic Wave Equation: The Method. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB019129	3.6	7
20	Azimuthal Anisotropy of the North American Upper Mantle Based on Full Waveform Inversion. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018432	3.6	6
19	Seismic evidence for subduction-induced mantle flows underneath Middle America. <i>Nature Communications</i> , <b>2020</b> , 11, 2075	17.4	6
18	High $V_p/V_s$ ratio in the crust and uppermost mantle beneath volcanoes in the Central and Eastern Anatolia. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 2151-2163	2.6	6
17	Isotropic elastic wavefields decomposition using fast Poisson solvers <b>2017</b> ,		5
16	Poloidal- and Toroidal-Mode Mantle Flows Underneath the Cascadia Subduction Zone. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087530	4.9	4

15	Least-squares reverse time migration using the impedance-sensitivity kernel <b>2018</b> ,		3
14	Seismogram registration via Markov chain Monte Carlo optimization and its applications in full waveform inversion. <i>Geophysical Journal International</i> , <b>2018</b> , 212, 976-987	2.6	2
13	Mitigating Velocity Errors in Least-Squares Imaging Using Angle-Dependent Forward and Adjoint Gaussian Beam Operators. <i>Surveys in Geophysics</i> , <b>2021</b> , 42, 1305-1346	7.6	2
12	Surface-offset gathers from elastic reverse time migration and velocity analysis. <i>Geophysics</i> , <b>2020</b> , 85, S47-S64	3.1	2
11	Approximating the Gauss-Newton Hessian Using a Space-Wavenumber Filter and its Applications in Least-Squares Seismic Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-13	8.1	2
10	Elastic Fresnel beam migration for areas with irregular topography <b>2016</b> ,		1
9	Seismogram registration via Markov chain-Monte Carlo optimization and its applications in full-waveform inversion <b>2017</b> ,		1
8	Caribbean plate tilted and actively dragged eastwards by low-viscosity asthenospheric flow. <i>Nature Communications</i> , <b>2021</b> , 12, 1603	17.4	1
7	Multifault Opposing-Dip Strike-Slip and Normal-Fault Rupture During the 2020 Mw 6.5 Stanley, Idaho Earthquake. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092510	4.9	1
6	Estimation of micro-earthquake source locations based on full adjoint P and S wavefield imaging. <i>Geophysical Journal International</i> , <b>2021</b> , 226, 2116-2144	2.6	1
5	Study of data-driven optimization strategy for beam migration <b>2016</b> ,		1
4	Viscoacoustic reverse time migration with a robust space-wavenumber domain attenuation compensation operator. <i>Geophysics</i> , <b>2021</b> , 86, S339-S353	3.1	1
3	Geometry-preserving full-waveform tomography and its application in the Longmen Shan area. <i>Science China Earth Sciences</i> , <b>2022</b> , 65, 437	4.6	0
2	Adjoint Tomography of the Lithospheric Structure beneath Northeastern Tibet. <i>Seismological Research Letters</i> , <b>2020</b> , 91, 3304-3312	3	0
1	Modified viscoelastic wavefield simulations in the time domain using the new fractional Laplacians. <i>Journal of Geophysics and Engineering</i> , <b>2022</b> , 19, 346-361	1.3	