

# Kai Gao

## List of Publications by Year in descending order

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33  
papers

409  
citations

759233

12  
h-index

752698

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g-index

35  
all docs

35  
docs citations

35  
times ranked

240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault Detection on Seismic Structural Images Using a Nested Residual U-Net. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	28
2	Automatic fault detection on seismic images using a multiscale attention convolutional neural network. Geophysics, 2022, 87, N13-N29.	2.6	30
3	Three-dimensional seismic characterization and imaging of the Soda Lake geothermal field. Geothermics, 2021, 90, 101996.	3.4	11
4	Improving the Image Quality of High-Angle Interfaces and Subsalt Sediments Using High-Order Scattered Seismic Waves. Pure and Applied Geophysics, 2021, 178, 1661.	1.9	2
5	Vector elastic deconvolution migration with dual wavefield decomposition. Geophysics, 2021, 86, S271-S282.	2.6	3
6	Elastic-waveform inversion and imaging of 2010 walkaway VSP data from the Raft River geothermal field. Geothermics, 2021, 94, 102095.	3.4	2
7	Imaging Complex Subsurface Structures for Geothermal Exploration at Pirouette Mountain and Eleven-Mile Canyon in Nevada. Frontiers in Earth Science, 2021, 9, .	1.8	0
8	An efficient high-order multiscale finite element method for frequency-domain elastic wave modeling. Computational Geosciences, 2019, 23, 997-1010.	2.4	3
9	A high-order multiscale finite-element method for time-domain elastic wave modeling in strongly heterogeneous media. Journal of Applied Geophysics, 2019, 170, 103852.	2.1	7
10	An efficient vector elastic reverse time migration method in the hybrid time and frequency domain for anisotropic media. Geophysics, 2019, 84, S511-S522.	2.6	10
11	Acoustic- and elastic-waveform inversion with total generalized p-variation regularization. Geophysical Journal International, 2019, 218, 933-957.	2.4	27
12	A high-order multiscale finite-element method for time-domain acoustic-wave modeling. Journal of Computational Physics, 2018, 360, 120-136.	3.8	20
13	Optimal damping profile ratios for stabilization of perfectly matched layers in general anisotropic media. Geophysics, 2018, 83, T15-T30.	2.6	16
14	An Efficient Multiscale Finite-Element Method for Frequency-Domain Seismic Wave Propagation. Bulletin of the Seismological Society of America, 2018, 108, 966-982.	2.3	12
15	An efficient vector elastic reverse time migration method in the hybrid time and frequency domains. , 2018, , .		0
16	An efficient multiscale solver for the frequency-domain elastic-wave equation in anisotropic media. , 2018, , .		0
17	Least-squares reverse time migration guided full-waveform inversion. , 2017, , .		12
18	An improved rotated staggered-grid finite-difference method with fourth-order temporal accuracy for elastic-wave modeling in anisotropic media. Journal of Computational Physics, 2017, 350, 361-386.	3.8	20

#	ARTICLE	IF	CITATIONS
19	A fast solver for the Helmholtz equation based on the generalized multiscale finite-element method. <i>Geophysical Journal International</i> , 2017, 211, 797-813.	2.4	19
20	Elastic least-squares reverse time migration with implicit wavefield separation. , 2017, , .		6
21	A higher-order spectral multiscale finite-element method for wave propagation. , 2017, , .		0
22	Least-squares elastic reverse time migration of microseismic data using inverted moment-tensor sources. , 2017, , .		0
23	Fast solver for Helmholtz equation using multiscale basis functions. , 2015, , .		1
24	Anisotropic elastic waveform inversion with modified total-variation regularization. , 2015, , .		1
25	An effective medium model for the stress-dependence of anisotropic seismic velocities in fractured rock. <i>Geological Society Special Publication</i> , 2015, 406, 359-374.	1.3	2
26	A numerical homogenization method for heterogeneous, anisotropic elastic media based on multiscale theory. <i>Geophysics</i> , 2015, 80, D385-D401.	2.6	32
27	Generalized Multiscale Finite-Element Method (GMsFEM) for elastic wave propagation in heterogeneous, anisotropic media. <i>Journal of Computational Physics</i> , 2015, 295, 161-188.	3.8	70
28	Multiscale modeling of acoustic wave propagation in 2D media. <i>Geophysics</i> , 2014, 79, T61-T75.	2.6	33
29	A multiscale method for elastic wave equation modeling. , 2013, , .		3
30	Multiscale modeling of acoustic wave propagation in 2D heterogeneous media using local spectral basis functions. , 2013, , .		7
31	Pressure-dependent seismic velocities based on effective compliance theory and an asperity deformation model. <i>Geophysics</i> , 2012, 77, D229-D243.	2.6	17
32	Streamline-based integration of time-lapse seismic and production data into petroleum reservoir models. <i>Geophysics</i> , 2012, 77, M73-M87.	2.6	14
33	A tentative approach based on unified asperity deformation model and effective compliance theory to explain the pressure-dependence of anisotropic velocity in sandstones. , 2012, , .		0