Liu Jianxin

List of Publications by Year
in descending order

123 papers	1,431 citations	393982 19 h-index	414034 32 g-index
123 all docs	123 docs citations	123 times ranked	1211 citing authors

#	Article	IF	Citations
1	Crustal structure and deformation of the SE Tibetan plateau revealed by receiver function data. Earth and Planetary Science Letters, 2012, 349-350, 186-197.	1.8	128
2	Optimization for extracellular biosynthesis of silver nanoparticles by Penicillium aculeatum Su1 and their antimicrobial activity and cytotoxic effect compared with silver ions. Materials Science and Engineering C, 2017, 77, 963-971.	3.8	113
3	Protection of Bovine Mammary Epithelial Cells from Hydrogen Peroxide-Induced Oxidative Cell Damage by Resveratrol. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-15.	1.9	69
4	Efficient hierarchical trans-dimensional Bayesian inversion of magnetotelluric data. Geophysical Journal International, 2018, 213, 1751-1767.	1.0	51
5	Electromagnetic methods for mineral exploration in China: A review. Ore Geology Reviews, 2020, 118, 103357.	1.1	50
6	Three‐dimensional controlled‐source electromagnetic modelling with a well casing as a grounded source: a hybrid method of moments and finite element scheme. Geophysical Prospecting, 2015, 63, 1491-1507.	1.0	47
7	Crustal structure and deformation under the Longmenshan and its surroundings revealed by receiver function data. Physics of the Earth and Planetary Interiors, 2015, 244, 11-22.	0.7	39
8	Elastic thickness of the Himalayan–Tibetan orogen estimated from the fan wavelet coherence method, and its implications for lithospheric structure. Earth and Planetary Science Letters, 2015, 409, 1-14.	1.8	39
9	Lactobacillus rhamnosus GG Attenuates Lipopolysaccharide-Induced Inflammation and Barrier Dysfunction by Regulating MAPK/NF-ĸB Signaling and Modulating Metabolome in the Piglet Intestine. Journal of Nutrition, 2020, 150, 1313-1323.	1.3	37
10	Non-linearity in Bayesian 1-D magnetotelluric inversion. Geophysical Journal International, 2011, 185, 663-675.	1.0	36
11	Effects of Chinese Propolis in Protecting Bovine Mammary Epithelial Cells against Mastitis Pathogens-Induced Cell Damage. Mediators of Inflammation, 2016, 2016, 1-12.	1.4	35
12	Investigation of a new acetogen isolated from an enrichment of the tammar wallaby forestomach. BMC Microbiology, 2014, 14, 314.	1.3	34
13	Robust Seismic Image Interpolation With Mathematical Morphological Constraint. IEEE Transactions on Image Processing, 2020, 29, 819-829.	6.0	27
14	A hybrid solver based on the integral equation method and vector finite-element method for 3D controlled-source electromagnetic method modeling. Geophysics, 2018, 83, E319-E333.	1.4	26
15	High-accuracy 3D Fourier forward modeling of gravity field based on the Gauss-FFT technique. Journal of Applied Geophysics, 2018, 150, 294-303.	0.9	22
16	Efficient 3‐D Large‐Scale Forward Modeling and Inversion of Gravitational Fields in Spherical Coordinates With Application to Lunar Mascons. Journal of Geophysical Research: Solid Earth, 2019, 124, 4157-4173.	1.4	22
17	Moho Beneath Tibet Based on a Joint Analysis of Gravity and Seismic Data. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008849.	1.0	22
18	Effect of Surface Modification of Silver Nanoparticles on the Proliferation of Human Lung Squamous Cell Carcinoma (HTB182) and Bronchial Epithelial (HBE) Cells *In Vitro*. Journal of Biomedical Nanotechnology, 2017, 13, 1281-1291.	0.5	21

#	ARTICLE	IF	CITATIONS
19	An Efficient Preconditioner for 3-D Finite Difference Modeling of the Electromagnetic Diffusion Process in the Frequency Domain. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 500-509.	2.7	21
20	Seismic characterization of fractured reservoirs with elastic impedance difference versus angle and azimuth: A low-frequency poroelasticity perspective. Geophysics, 2021, 86, M123-M139.	1.4	19
21	Gut health benefit and application of postbiotics in animal production. Journal of Animal Science and Biotechnology, 2022, 13, 38.	2.1	19
22	Elastic thickness, mechanical anisotropy and deformation of the southeastern Tibetan Plateau. Tectonophysics, 2014, 637, 45-56.	0.9	18
23	Azimuthal amplitude variation with offset parameterization and inversion for fracture weaknesses in tilted transversely isotropic media. Geophysics, 2021, 86, C1-C18.	1.4	18
24	Application of the CSAMT Method to Pb–Zn Mineral Deposits: A Case Study in Jianshui, China. Minerals (Basel, Switzerland), 2019, 9, 726.	0.8	17
25	An efficient multigrid solver based on a four-color cell-block Gauss-Seidel smoother for 3D magnetotelluric forward modeling. Geophysics, 2022, 87, E121-E133.	1.4	17
26	3–D Density Structure of the Lunar Mascon Basins Revealed by a High–Efficient Gravity Inversion of the GRAIL Data. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006841.	1.5	16
27	Intermittent Fasting Reshapes the Gut Microbiota and Metabolome and Reduces Weight Gain More Effectively Than Melatonin in Mice. Frontiers in Nutrition, 2021, 8, 784681.	1.6	15
28	Improved watershed algorithm for dowels image segmentation. , 2008, , .		14
29	Three-dimensional forward modeling for magnetotelluric sounding by finite element method. Central South University, 2009, 16, 136-142.	0.5	13
30	Frequency- and spatial-correlated noise on layered magnetotelluric inversion. Geophysical Journal International, 2014, 199, 1205-1213.	1.0	13
31	Establishment and Characterization of an Omasal Epithelial Cell Model Derived from Dairy Calves for the Study of Small Peptide Absorption. PLoS ONE, 2014, 9, e88993.	1.1	13
32	Dynamic imaging of metallic contamination plume based on self-potential data. Transactions of Nonferrous Metals Society of China, 2017, 27, 1822-1830.	1.7	12
33	Removal of galvanic distortion effects in 3D magnetotelluric data by an equivalent source technique. Geophysics, 2018, 83, E95-E110.	1.4	12
34	An Efficient Footprint-Guided Compact Finite Element Algorithm for 3-D Airborne Electromagnetic Modeling. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1809-1813.	1.4	12
35	Association of TP53 codon 72 polymorphism with cervical cancer risk in Chinese women. Cancer Genetics and Cytogenetics, 2010, 197, 174-178.	1.0	11
36	Performance evaluation for intelligent optimization algorithms in self-potential data inversion. Journal of Central South University, 2016, 23, 2659-2668.	1.2	11

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37	Frequency-domain magnetotelluric footprint analysis for 3D earths. Journal of Geophysics and Engineering, 2019, 16, 1151-1163.	0.7	11
38	Impairment of Intestinal Barrier Function Induced by Early Weaning via Autophagy and Apoptosis Associated With Gut Microbiome and Metabolites. Frontiers in Immunology, 2021, 12, 804870.	2.2	11
39	Structure of the Upper Mantle and Transition Zone Beneath the South China Block Imaged by Finite Frequency Tomography. Acta Geologica Sinica, 2016, 90, 1637-1652.	0.8	10
40	Three-dimensional controlled-source electromagnetic forward modeling by edge-based finite element with a divergence correction. Geophysics, 2021, 86, E367-E382.	1.4	10
41	Effect of data error correlations on trans-dimensional MT Bayesian inversions. Earth, Planets and Space, 2019, 71, .	0.9	10
42	Inversion for magnetotelluric data using the particle swarm optimization and regularized least squares. Journal of Applied Geophysics, 2020, 181, 104156.	0.9	9
43	A time-lapse CSEM monitoring study for hydraulic fracturing in shale gas reservoir. Marine and Petroleum Geology, 2020, 120, 104545.	1.5	9
44	Numerical modeling of biogeobattery system from microbial degradation of underground organic contaminant. SN Applied Sciences, 2020, 2, 1.	1.5	9
45	L. reuteri ZJ617 inhibits inflammatory and autophagy signaling pathways in gut-liver axis in piglet induced by lipopolysaccharide. Journal of Animal Science and Biotechnology, 2021, 12, 110.	2.1	9
46	Extracellular Biosynthesis, Characterization and Cytotoxic Effect of Silver Nanoparticles by <i>Streptomyces coelicoflavus</i> KS-3. Journal of Nanoscience and Nanotechnology, 2018, 18, 8133-8141.	0.9	8
47	Geosciences in Central South University: A state-of-the-art review. Journal of Central South University, 2020, 27, 975-996.	1.2	8
48	Estimation of Brittleness and Anisotropy Parameters in Transversely Isotropic Media With Vertical Axis of Symmetry. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	2.7	8
49	Detection of Natural Tilted Fractures From Azimuthal Seismic Amplitude Data Based on Linear-Slip Theory. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	8
50	Estimating Effective Stress Parameter and Fracture Parameters in Shale-Gas Fractured Reservoirs Using Azimuthal Fourier Coefficients. Surveys in Geophysics, 2021, 42, 1377-1400.	2.1	8
51	Enhancement in photocatalytic performance of Ag€"AgCl decorated with h-WO3 and mechanism insight. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	7
52	Seismic Characterization of Decoupled Orthorhombic Fractures Based on Observed Surface Azimuthal Amplitude Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	7
53	Olive oil cake extract stabilizes the physiological condition of lipopolysaccharide-challenged piglets by reducing oxidative stress and inflammatory responses and modulating the ileal microbiome. Food and Function, 2021, 12, 10171-10183.	2.1	7
54	Crustal structure and deformation in southeastern China revealed by receiver functions. Journal of Asian Earth Sciences, 2021, 221, 104937.	1.0	7

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55	3D Forward Modeling of Seepage Self-potential Using Finite-infinite Element Coupling Method. Journal of Environmental and Engineering Geophysics, 2020, 25, 381-390.	1.0	7
56	Lactic Acid Bacteria Mixture Isolated From Wild Pig Alleviated the Gut Inflammation of Mice Challenged by Escherichia coli. Frontiers in Immunology, 2022, 13, 822754.	2.2	7
57	Seismic Characterization of Naturally Fractured Reservoirs with Monoclinic Symmetry Induced by Horizontal and Tilted Fractures from Amplitude Variation with Offset and Azimuth. Surveys in Geophysics, 0, , .	2.1	7
58	Fluid Discrimination Based on Inclusion-Based Method for Tight Sandstone Reservoirs. Surveys in Geophysics, 2022, 43, 1469-1496.	2.1	7
59	Effect of Fiber and Fecal Microbiota Transplantation Donor on Recipient Mice Gut Microbiota. Frontiers in Microbiology, 2021, 12, 757372.	1.5	6
60	Kinetic behavior in self-assembly process of associative polymer solutions. Journal of Macromolecular Science - Pure and Applied Chemistry, 2016, 53, 215-221.	1.2	5
61	Comparison of marine controlled-source electromagnetic data acquisition systems by a reservoir sensitivity index: analyzing the effect of water depths. Acta Oceanologica Sinica, 2016, 35, 113-119.	0.4	5
62	Geophysical Field Data Interpolation Using Stochastic Partial Differential Equations for Gold Exploration in Dayaoshan, Guangxi, China. Minerals (Basel, Switzerland), 2019, 9, 14.	0.8	5
63	Stable Finite-Difference Methods for Elastic Wave Modeling with Characteristic Boundary Conditions. Mathematics, 2020, 8, 1039.	1.1	5
64	Numerical Modeling of Marine Self-Potential from a Seafloor Hydrothermal Ore Deposit. Pure and Applied Geophysics, 2021, 178, 1731-1744.	0.8	5
65	Bacillus amyloliquefaciens-9 Reduces Somatic Cell Count and Modifies Fecal Microbiota in Lactating Goats. Marine Drugs, 2021, 19, 404.	2.2	5
66	Sensitivity and Resolution of Controlled-Source Electromagnetic Method for Gas Hydrate Stable Zone. Energies, 2021, 14, 8318.	1.6	5
67	Heterologous expression and characterization of two novel glucanases derived from sheep rumen microbiota. World Journal of Microbiology and Biotechnology, 2022, 38, 87.	1.7	5
68	Efficient 2D Modeling of Magnetic Anomalies Using NUFFT in the Fourier Domain. Pure and Applied Geophysics, 2022, 179, 2311-2325.	0.8	5
69	Groundwater Detection Using the Pseudo-3D Resistivity Method: A History of Case Studies. Applied Sciences (Switzerland), 2022, 12, 6788.	1.3	5
70	Spindle-shaped microfluidic chamber with uniform perfusion flows. Microfluidics and Nanofluidics, 2013, 15, 839-845.	1.0	4
71	Integrated interpretation of dual frequency induced polarization measurement based on wavelet analysis and metal factor methods. Transactions of Nonferrous Metals Society of China, 2013, 23, 1465-1471.	1.7	4
72	Peptide Nucleic Acids (PNAs) Patterning by an Automated Microarray Synthesis System Through Photolithography. Journal of Nanoscience and Nanotechnology, 2013, 13, 2061-2067.	0.9	4

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73	Sequential and simultaneous joint inversion of resistivity and IP sounding data using particle swarm optimization. Journal of Earth Science (Wuhan, China), 2017, 28, 709-718.	1.1	4
74	Three-dimensional Land FD-CSEM Regularized Inversion Based on Edge Finite-element Method. Journal of Environmental and Engineering Geophysics, 2018, 23, 211-222.	1.0	4
75	Three-Dimensional Wide-Band Electromagnetic Forward Modelling Using Potential Technique. Applied Sciences (Switzerland), 2019, 9, 1328.	1.3	4
76	Comparison of structured and unstructured grids in marine controlled source electromagnetic inversions for offshore hydrocarbon exploration. Marine and Petroleum Geology, 2019, 100, 204-211.	1.5	4
77	2.5D electric resistivity forward modeling with element-free Galerkin method. Journal of Applied Geophysics, 2019, 162, 47-57.	0.9	4
78	A coupled anisotropic fluid indicator for seismic characterization of tight gas-bearing fractured reservoirs. Journal of Natural Gas Science and Engineering, 2020, 83, 103552.	2.1	4
79	Inversion of self-potential anomalies caused by simple polarized bodies based on particle swarm optimization. Journal of Central South University, 2021, 28, 1797-1812.	1.2	4
80	Encapsulated Mixture of Methyl Salicylate and Tributyrin Modulates Intestinal Microbiota and Improves Growth Performance of Weaned Piglets. Microorganisms, 2021, 9, 1342.	1.6	4
81	Fast numerical simulation of 2D gravity anomaly based on nonuniform fast Fourier transform in mixed space-wavenumber domain. Journal of Applied Geophysics, 2021, 194, 104465.	0.9	4
82	Geophysical electromagnetic modeling and evaluation: A review. Journal of Applied Geophysics, 2021, 194, 104438.	0.9	4
83	Efficient Filter Generation Based on Particle Swarm Optimization Algorithm. IEEE Access, 2021, 9, 22816-22823.	2.6	4
84	Three-dimensional land FD-CSEM forward modeling using edge finite-element method. Journal of Central South University, 2018, 25, 131-140.	1.2	3
85	Forward plane–wave electromagnetic model in three dimensions using hybrid finite volume–integral equation scheme. Geophysical Prospecting, 2019, 67, 2213-2226.	1.0	3
86	2.5D self-potential forward modeling by natural-infinite element coupling method. Journal of Applied Geophysics, 2020, 179, 104077.	0.9	3
87	A feasibility study of the wide-field electromagnetic method for hidden ore deposits prospecting. Journal of Applied Geophysics, 2020, 179, 104121.	0.9	3
88	Sources of rare earth elements REE+Y (REY) in Bayili Coal Mine from Wensu County of Xinjiang, China. Transactions of Nonferrous Metals Society of China, 2021, 31, 3105-3115.	1.7	3
89	Two-dimensional diffraction tomography algorithm of underground objects located in planar multilayer medium[1]. , 2010, , .		2
90	A decorrelation-based hybrid global search algorithm for inversion of 1D magnetotelluric data. Journal of Geophysics and Engineering, 2011, 8, 225-232.	0.7	2

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91	3D finite element numerical simulation of advanced detection in roadway for DC focus method. Transactions of Nonferrous Metals Society of China, 2013, 23, 2187-2193.	1.7	2
92	Development of multi-channel observation and inversion for IP electrical sounding method. Transactions of Nonferrous Metals Society of China, 2014, 24, 816-823.	1.7	2
93	Three-dimensional magnetotelluric regularized inversion based on smoothness-constrained model. Transactions of Nonferrous Metals Society of China, 2014, 24, 509-513.	1.7	2
94	Comparison of Detection Capability by the Controlled Source Electromagnetic Method for Hydrocarbon Exploration. Energies, 2018, 11, 1839.	1.6	2
95	Stability analysis-based reformulation of wave equations for poro-elastic media saturated with two fluids. Geophysical Journal International, 2021, 226, 327-344.	1.0	2
96	Wave Equations of Porous Media Saturated With Two Immiscible Fluids Based on the Volume Averaging Method. Frontiers in Earth Science, 2021, 9, .	0.8	2
97	Deep metallogenic mechanism in southeastern Chinabased on receiver function data. Transactions of Nonferrous Metals Society of China, 2022, 32, 273-284.	1.7	2
98	Fecal Microbiota Transplantation Donor and Dietary Fiber Intervention Collectively Contribute to Gut Health in a Mouse Model. Frontiers in Immunology, 2022, 13, 842669.	2.2	2
99	Deep-neural-networks-based approaches for Biotâ€"squirt model in rock physics. Acta Geophysica, 2022, 70, 593-607.	1.0	2
100	Extension of the regularization technique to controlled-source electromagnetic modeling in general anisotropic conductivity media. Geophysics, 2022, 87, E243-E251.	1.4	2
101	Three-dimensional controlled-source EM modeling with an energized well casing by finite element. , 2015, , .		1
102	Two-dimensional regularized inversion of AMT data based on rotation invariant of Central impedance tensor. Earth and Planetary Physics, 2018, 2, 1-8.	0.4	1
103	Optimal Third-Order Symplectic Integration Modeling of Seismic Acoustic Wave Propagation. Bulletin of the Seismological Society of America, 2020, 110, 754-762.	1.1	1
104	Zoeppritz-equations-based amplitude variation with angle inversion for Russell fluid factor in a gas-bearing reservoir. Journal of Petroleum Science and Engineering, 2021, , 109204.	2.1	1
105	An element-free Galerkin method based on adaptive background cells for 2.5D DC resistivity modeling. , 2018, , .		1
106	A Feasibility Study of CSEM in Geological Advance Forecast with Horizontal Casing Well. Minerals (Basel, Switzerland), 2022, 12, 638.	0.8	1
107	A Mori-Tanaka scheme-based model for gas-water two-phase cracked rocks and its application. Journal of Natural Gas Science and Engineering, 2022, 105, 104690.	2.1	1
108	Copper Pattern on Self-Assembled Monolayer Through Microcontact Printing. Journal of Nanoscience and Nanotechnology, 2010, 10, 3072-3077.	0.9	0

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109	Computer Optimization in Biomechanics in Large Strain Level Compression Test. , 2010, , .		0
110	Ground penetating radar imaging algorithm of targets located in unknown subsurface environment based on compressive sensing. , 2010, , .		0
111	Three-dimensional Land FD-CSEM Forward Modeling Using Edge Finite-element Method. , 2013, , .		0
112	Influence of Surfactant and Charged Monomer Concentrations on Micro-Block Length of Associative Polymers by Micellar Polymerization. Journal of Dispersion Science and Technology, 2016, 37, 1083-1088.	1.3	0
113	Corrections to â€œAn Efficient Preconditioner for 3D Finite Difference Modeling of the Electromagnetic Diffusion Process in the Frequency Domainâ€•[DOI: 10.1109/TGRS.2019.2937742]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9512-9512.	2.7	0
114	Effect of Displacement Current on the Finite-Difference Modeling of Natural Source Electromagnetic Diffusion. Applied Sciences (Switzerland), 2020, 10, 2744.	1.3	0
115	A Comparison of Different Divergence-free Solutions for 3D Anisotropic CSEM Modeling Using Staggered Finite Difference Method. IOP Conference Series: Earth and Environmental Science, 2021, 660, 012133.	0.2	0
116	Modelling magnetic field data using stochastic partial differential equations. , 2017, , .		0
117	Three-dimensional electromagnetic forward-modelling using gauge potential technique. , 2018, , .		0
118	Three Dimensional Magnetotelluric Forward Modelling using Gauge Potential Approach. , 2018, , .		0
119	Three-dimensional finite element modeling of CSEM response accelerated by a divergence correction technique. , 2019, , .		0
120	Urban ground exploration using Pseudo-3D conducting electrical method. , 2019, , .		0
121	Inversion of reservoir parameters based on the rock physics model and neural ODEs. , 2020, , .		0
122	Detection of boulder using GEM-2 EM system based on three-dimensional inversion algorithm. Journal of Applied Geophysics, 2022, 196, 104516.	0.9	0
123	Analysis and Application of the Sparse Prior in Probabilistic Prediction of Elastic Parameters. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	2.7	0