Jun Lin

List of Publications by Year
in descending order

116	1,100	430442	552369
papers	citations	18 h-index	26 g-index

117	117	117	956
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrothermal synthesis of hierarchical CoO/SnO2 nanostructures for ethanol gas sensor. Journal of Colloid and Interface Science, 2018, 513, 760-766.	5.0	75
2	Statistical stacking and adaptive notch filter to remove highâ€level electromagnetic noise from MRS measurements. Near Surface Geophysics, 2011, 9, 459-468.	0.6	65
3	Asphericity Errors Correction of Magnetic Gradient Tensor Invariants Method for Magnetic Dipole Localization. IEEE Transactions on Magnetics, 2012, 48, 4701-4706.	1.2	39
4	PVDF tactile sensors for detecting contact force and slip: A review. Ferroelectrics, 2016, 504, 31-45.	0.3	38
5	Seismic Shot Gather Denoising by Using a Supervised-Deep-Learning Method with Weak Dependence on Real Noise Data: A Solution to the Lack of Real Noise Data. Surveys in Geophysics, 2022, 43, 1363-1394.	2.1	35
6	Compact fluxgate magnetic full-tensor gradiometer with spherical feedback coil. Review of Scientific Instruments, 2014, 85, 014701.	0.6	32
7	Interaction between two adjacent grounded sources in frequency domain semi-airborne electromagnetic survey. Review of Scientific Instruments, 2016, 87, 034503.	0.6	26
8	PC-based artificial neural network inversion for airborne time-domain electromagnetic data. Applied Geophysics, 2012, 9, 1-8.	0.1	25
9	Application of artificial bee colony algorithm to maximum likelihood DOA estimation. Journal of Bionic Engineering, 2013, 10, 100-109.	2.7	25
10	Fast-AIC Method for Automatic First Arrivals Picking of Microseismic Event With Multitrace Energy Stacking Envelope Summation. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1832-1836.	1.4	25
11	Multiscale Spatial Attention Network for Seismic Data Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	25
12	The Optimal De-noising Algorithm for ECG Using Stationary Wavelet Transform. , 2009, , .		24
13	Design of Cable Parallel Air-Core Coil Sensor to Reduce Motion-Induced Noise in Helicopter Transient Electromagnetic System. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 525-532.	2.4	24
14	High-sensitivity cooled coil system for nuclear magnetic resonance in kHz range. Review of Scientific Instruments, 2014, 85, 114708.	0.6	23
15	Reducing Motion-Induced Noise With Mechanically Resonant Coil Sensor in a Rigid Helicopter Transient Electromagnetic System. IEEE Transactions on Industrial Electronics, 2020, 67, 2391-2401.	5.2	20
16	Correction of a Towed Airborne Fluxgate Magnetic Tensor Gradiometer. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1837-1841.	1.4	19
17	An Efficient Neural-Network-Based Microseismic Monitoring Platform for Hydraulic Fracture on an Edge Computing Architecture. Sensors, 2018, 18, 1828.	2.1	19
18	An Integrated Energy-Efficient Wireless Sensor Node for the Microtremor Survey Method. Sensors, 2019, 19, 544.	2.1	19

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19	An Optimized Air-Core Coil Sensor with a Magnetic Flux Compensation Structure Suitable to the Helicopter TEM System. Sensors, 2016, 16, 508.	2.1	18
20	Design of an On-Chip Highly Sensitive Misalignment Sensor in Silicon Technology. IEEE Sensors Journal, 2017, 17, 1211-1212.	2.4	18
21	Application of magnetic resonance sounding to tunnels for advanced detection of water-related disasters: A case study in the Dadushan Tunnel, Guizhou, China. Tunnelling and Underground Space Technology, 2019, 84, 364-372.	3.0	18
22	A Para-Whole Space Model for Underground Magnetic Resonance Sounding Studies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 264-271.	2.3	17
23	Development of a Rigid One-Meter-Side and Cooled Coil Sensor at 77 K for Magnetic Resonance Sounding to Detect Subsurface Water Sources. Sensors, 2017, 17, 1362.	2.1	16
24	Feasibility of signal enhancement with multiple groundedâ€wire sources for a frequencyâ€domain electromagnetic survey. Geophysical Prospecting, 2018, 66, 818-832.	1.0	16
25	Ppbv-Level Ethane Detection Using Quartz-Enhanced Photoacoustic Spectroscopy with a Continuous-Wave, Room Temperature Interband Cascade Laser. Sensors, 2018, 18, 723.	2.1	16
26	Investigation and Optimization of the Performance of an Air-Coil Sensor with a Differential Structure Suited to Helicopter TEM Exploration. Sensors, 2015, 15, 23325-23340.	2.1	15
27	The enhanced CO gas sensing performance of Pd/SnO₂ hollow sphere sensors under hydrothermal conditions. RSC Advances, 2016, 6, 80455-80461.	1.7	15
28	Anti-saturation system for surface nuclear magnetic resonance in efficient groundwater detection. Review of Scientific Instruments, 2017, 88, 064702.	0.6	15
29	Compressive Data Gathering With Generative Adversarial Networks for Wireless Geophone Networks. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 558-562.	1.4	15
30	Analysis and Simulation of Flight Effects on an Airborne Magnetic Gradient Tensor Measurement System. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2657-2665.	2.4	14
31	Study on Shortening the Dead Time of Surface Nuclear Magnetic Resonance Instrument Using Bipolar Phase Pulses. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1268-1274.	2.4	14
32	Moving target recognition with seismic sensing: A review. Measurement: Journal of the International Measurement Confederation, 2021, 181, 109584.	2.5	13
33	Constant-current control method of multi-function electromagnetic transmitter. Review of Scientific Instruments, 2015, 86, 024501.	0.6	12
34	Wireless Multi-Hop Energy-Efficient System for High-Density Seismic Array. IEEE Access, 2020, 8, 26054-26066.	2.6	12
35	Optimal Design of Low-Noise Induction Magnetometer in 1 mHzâ€“10 kHz Utilizing Paralleled Dual-JFET Differential Pre-Amplifier. IEEE Sensors Journal, 2016, 16, 3580-3586.	2.4	11
36	A seismic interpolation and denoising method with curvelet transform matching filter. Acta Geophysica, 2017, 65, 1029-1042.	1.0	11

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37	Edge Intelligence-Based Moving Target Classification Using Compressed Seismic Measurements and Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	11
38	Rapid and High-Resolution Detection of Urban Underground Space Using Transient Electromagnetic Method. IEEE Transactions on Industrial Informatics, 2022, 18, 2622-2631.	7.2	10
39	A parametric study of microstrip-fed Vivaldi antenna. , 2017, , .		9
40	Ground Moving Target Detection With Seismic Fractal Features. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	9
41	Time-domain hyperbolic Radon transform for separation of P-P and P-SV wavefields. Studia Geophysica Et Geodaetica, 2016, 60, 91-111.	0.3	8
42	Response Characteristics and Experimental Study of Underground Magnetic Resonance Sounding Using a Small-Coil Sensor. Sensors, 2017, 17, 2127.	2.1	8
43	Autonomous Operation Method of Multi-DOF Robotic Arm Based on Binocular Vision. Applied Sciences (Switzerland), 2019, 9, 5294.	1.3	8
44	Inversion Method of a Highly Generalized Neural Network Based on Rademacher Complexity for Rough Media GATEM Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	8
45	Boosting Signal to Noise Ratio of Seismic Signals Using the Phased-Array Vibrator System. Chinese Journal of Geophysics, 2006, 49, 1658-1664.	0.2	7
46	Non-invasive characterization of water-bearing strata using a combination of geophysical techniques. Journal of Applied Geophysics, 2013, 91, 49-65.	0.9	7
47	Note: Improving the performance of a geophone through suspension system configuration. Review of Scientific Instruments, 2014, 85, 126104.	0.6	7
48	Research and Realization of Short Dead-Time Surface Nuclear Magnetic Resonance for Groundwater Exploration. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 278-287.	2.4	7
49	Bipolar square-wave current source for transient electromagnetic systems based on constant shutdown time. Review of Scientific Instruments, 2016, 87, 034707.	0.6	7
50	Global Optimization of Wireless Seismic Sensor Network Based on the Kriging Model and Improved Particle Swarm Optimization Algorithm. Wireless Personal Communications, 2017, 95, 2203-2222.	1.8	7
51	New Method for Detecting Risk of Tunnel Water-Induced Disasters Using Magnetic Resonance Sounding. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 843-847.	1.4	7
52	Self-Calibration of the Phase Angle Errors of RVDs at Frequencies Up to 100 kHz. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 593-599.	2.4	7
53	A High-Precision Energy-Efficient GPS Time-Sync Method for High-Density Seismic Surveys. Applied Sciences (Switzerland), 2020, 10, 3768.	1.3	7
54	Denoising of Transient Electromagnetic Data Based on the Minimum Noise Fraction-Deep Neural Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7

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55	Cascaded transmitter with output of 2n sequence pseudo-random waveform for semi-airborne frequency-domain electromagnetic exploration. , 2015, , .		6
56	Numerical Optimization of the Tube-Cored Induction Magnetometer Weight Under Specific Noise Constraints. IEEE Sensors Journal, 2017, 17, 3302-3308.	2.4	6
57	Sensitivity Model for Residence Times Difference Fluxgate Magnetometers Near Zero Magnetic Field. IEEE Sensors Journal, 2020, 20, 868-875.	2.4	6
58	Divergence of tipper vector imaging for groundâ€“airborne frequency-domain electromagnetic method with orthogonal sources. Journal of Electromagnetic Waves and Applications, 2020, 34, 316-329.	1.0	6
59	A review on the progress of the underground nuclear magnetic resonance method for groundwater disaster forecasting detection of tunnels and mines. Journal of Applied Geophysics, 2020, 177, 104041.	0.9	6
60	Modeling of Seafloor Exploration Using Electricsource Frequencyâ€Domain CSEM and the Analysis of Water Depth Effect. Chinese Journal of Geophysics, 2010, 53, 669-683.	0.2	5
61	High-speed download of seismographs using private cloud technology and a proportional integral derivative controller. Instrumentation Science and Technology, 2016, 44, 12-22.	0.9	5
62	Monitoring temporal variations in instrument responses in regional broadband seismic network using ambient seismic noise. Geophysical Prospecting, 2018, 66, 1019-1036.	1.0	5
63	Intelligent Moving Target Recognition Based on Compressed Seismic Measurements and Deep Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
64	The Helicopter Time-Domain Electromagnetic Technology Advances in China. Surveys in Geophysics, 2021, 42, 585-624.	2.1	5
65	Integrated TEM and GPR Data Interpretation for High-Resolution Measurement of Urban Underground Space. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	5
66	Design and application of a boreholeâ€“surface microseismic monitoring system. Instrumentation Science and Technology, 2017, 45, 233-247.	0.9	4
67	Improving the Signal-to-Noise Ratio of Underground Nuclear Magnetic Resonance Data Based on the Nearby Reference Noise Cancellation Method. IEEE Access, 2019, 7, 75265-75275.	2.6	4
68	A Rotational Measurement Scheme of Surface Nuclear Magnetic Resonance for Shallow Frozen Lake Characterization in Urban Environments. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	4
69	The Study on Non-cable Telemetry Seismograph for Metal Mineral Exploration. , 2009, , .		3
70	Joint angle-frequency estimation based on WSF using Artificial Bee Colony algorithm. , 2013, , .		3
71	Design and Implementation of a Coal-Bed Methane Fracture Monitoring System based on Virtual Instrument Technology. Instrumentation Science and Technology, 2015, 43, 290-302.	0.9	3
72	Dynamic Response Analysis of Microflow Electrochemical Sensors with Two Types of Elastic Membrane. Sensors, 2016, 16, 657.	2.1	3

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73	Self-Calibration and Verification of Phase Angle Errors of Two Voltage Dividers at High Frequencies. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2053-2059.	2.4	3
74	Site Characterization of Soil-rock Mixture Sedimentary Stratum Based on HVSR Analysis in the Chinese Loess Plateau. Journal of Environmental and Engineering Geophysics, 2020, 25, 101-109.	1.0	3
75	Non-Invasive Measurement, Mathematical Simulation and In Situ Detection of Biofilm Evolution in Porous Media: A Review. Applied Sciences (Switzerland), 2021, 11, 1391.	1.3	3
76	Extracting reflection with wavelet transform in vibroseis signal processing. Journal of Geophysics and Engineering, 2006, 3, 236-242.	0.7	3
77	SNR Improvement of Seismic Signals in Different Time Delays. Chinese Journal of Geophysics, 2009, 52, 725-730.	0.2	2
78	Comparison of Electromagnetic Vibrator and Impact Coding Source. , 2011, , .		2
79	Control of two-stage matrix converter under unbalanced source voltages. , 2016, , .		2
80	Crustal structure beneath Liaoning province and the Bohai Sea and its adjacent region in China based on ambient noise tomography. Earthquake Science, 2017, 30, 1-15.	0.4	2
81	A dumbbell-shaped hybrid magnetometer operating in DC-10 kHz. Review of Scientific Instruments, 2017, 88, 125001.	0.6	2
82	A field experiment with self-developed broadband recorders and a preliminary characteristic analysis of the data records. Journal of Geophysics and Engineering, 2018, 15, 2287-2296.	0.7	2
83	Research on vibration sensor based on giant magnetoresistance effect. Review of Scientific Instruments, 2019, 90, 105001.	0.6	2
84	Application of the Segmented Correlation Technology in Seismic Communication with Morse Code. Applied Sciences (Switzerland), 2021, 11, 1947.	1.3	2
85	A Greedy Flee in the Direction Routing Algorithm for Data Quality Control System of 3D Seismic Sensors Array. IEEE Communications Letters, 2021, 25, 2415-2419.	2.5	2
86	Hierarchical High-speed No-blind Networks Used in Land Seismic Explorations. , 2016, , .		2
87	Automatic Microseismic Event Detection With Variance Fractal Dimension via Multitrace Envelope Energy Stacking. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	2
88	Adaptive Moving Ground-Target Detection Method Based on Seismic Signal. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
89	Parameter estimation of the non integer model of the striated muscle of a rabbit. , 0, , .		1
90	Phase control technique of distributed vibrator array system. , 2008, , .		1

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91	Parameter estimation of continuous model based on Marquardt algorithm. , 2012, , .		1
92	Evaluation of oil yield of oil shale by infrared spectrometry coupled with ultrasound-assisted extraction. Chemical Research in Chinese Universities, 2015, 31, 352-356.	1.3	1
93	A case of fluxgate magnetic gradient tensor measurement system on microlight. , 2015, , .		1
94	Comparison and Voltage Dependence Measurement in Phase Angle Errors of Two Voltage Dividers. , 2018, , .		1
95	Transmitting oscillation suppression of low-Tc SQUID TEM system based on RC serial and multi-parallel capacity snubber circuit. Journal of Central South University, 2018, 25, 2076-2084.	1.2	1
96	Multiobject Localization Using Magnetic Tensor Gradiometer Array and Improved iForest. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
97	An Energy-Balanced Routing Algorithm in Wireless Seismic Sensor Network. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6823-6833.	0.4	1
98	A Novel Approach of Energy Efficiency Based on Multiple Data Collector Placement for Wireless Seismic Sensor Network. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6834-6843.	0.4	1
99	Divergence of tipper real induction vector in tensor frequency-domain ground-airborne electromagnetic method. , 2018, , .		1
100	Low-Field Nuclear Magnetic Resonance Characteristics of Biofilm Development Process. Microorganisms, 2021, 9, 2466.	1.6	1
101	A Link and Energy Aware Gradient Routing Method for Seismic Node Networks. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	1
102	Magnetic Viscosity Effect in Magnetic-Source Time-Domain Electromagnetic Surveys. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	1
103	Seismoelectric Wave Propagation Simulation by Combining Poro-Viscoelastic Anisotropic Model With Coleâ€“Cole Depression Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	1
104	A Study of Blood Sugar Meter Embedded in Mobile Phone. , 2007, , .		0
105	Bandwidth auto-matching method for MRS signal. , 2010, , .		0
106	Frequency identification of fractional systems based on gain and phase data. , 2010, , .		0
107	Optimal parameters selection to satisfy optimum modulus theory. , 2010, , .		0
108	Non-uniform field data inversion of fixed loop source TEM. , 2011, , .		0

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109	Notice of Retraction: Development of high resolution and low noise transient electromagnetic receiver. , 2011, , .		0
110	Adaptive Analysis of Filter Methods for Magnetic Resonance Sounding. , 2013, , .		0
111	On estimating time offsets in the ambient noise correlation function caused by instrument response errors. Acta Geophysica, 2018, 66, 1291-1301.	1.0	0
112	Seismic exploration method to detect underground mined-out areas in the molybdenum mine. WIT Transactions on Engineering Sciences, 2015, , .	0.0	0
113	Initial Parameters of Voltage Stabilized Clamping Control for TEM Transmitting System. , 2015, , .		0
114	MONITORING VARIATIONS IN FULL CROSS-CORRELATION FUNCTIONS AT REGIONAL SCALE USING AMBIENT NOISE RECORDS. Environmental Engineering and Management Journal, 2017, 16, 2181-2190.	0.2	0
115	Reference Noise Cancellation Based on Multi-vector Underground MRS. , 2019, , .		0
116	A Field Self-Adjusting Method for Electrochemical Seismometer Based on Dynamic Feedback Network. IEEE Sensors Journal, 2022, 22, 4224-4234.	2.4	0