

# Jun Lin

## List of Publications by Year in descending order

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116  
papers

1,100  
citations

430442

18  
h-index

552369

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117  
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117  
docs citations

117  
times ranked

956  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ground Moving Target Detection With Seismic Fractal Features. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	9
3	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
4	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
5	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
6	Multiobject Localization Using Magnetic Tensor Gradiometer Array and Improved iForest. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
7	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
8	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
9	A Field Self-Adjusting Method for Electrochemical Seismometer Based on Dynamic Feedback Network. IEEE Sensors Journal, 2022, 22, 4224-4234.	2.4	0
10	Adaptive Moving Ground-Target Detection Method Based on Seismic Signal. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
11	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
12	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
13	Magnetic Viscosity Effect in Magnetic-Source Time-Domain Electromagnetic Surveys. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	1
14	Multiscale Spatial Attention Network for Seismic Data Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	25
15	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
16	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
17	Seismoelectric Wave Propagation Simulation by Combining Poro-Viscoelastic Anisotropic Model With Cole's Cole Depression Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	1
18	Compressive Data Gathering With Generative Adversarial Networks for Wireless Geophone Networks. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 558-562.	1.4	15

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19	Application of the Segmented Correlation Technology in Seismic Communication with Morse Code. Applied Sciences (Switzerland), 2021, 11, 1947.	1.3	2
20	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
21	The Helicopter Time-Domain Electromagnetic Technology Advances in China. Surveys in Geophysics, 2021, 42, 585-624.	2.1	5
22	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
23	Moving target recognition with seismic sensing: A review. Measurement: Journal of the International Measurement Confederation, 2021, 181, 109584.	2.5	13
24	Low-Field Nuclear Magnetic Resonance Characteristics of Biofilm Development Process. Microorganisms, 2021, 9, 2466.	1.6	1
25	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
26	Sensitivity Model for Residence Times Difference Fluxgate Magnetometers Near Zero Magnetic Field. IEEE Sensors Journal, 2020, 20, 868-875.	2.4	6
27	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
28	Divergence of tipper vector imaging for ground-airborne frequency-domain electromagnetic method with orthogonal sources. Journal of Electromagnetic Waves and Applications, 2020, 34, 316-329.	1.0	6
29	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
30	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
31	A High-Precision Energy-Efficient GPS Time-Sync Method for High-Density Seismic Surveys. Applied Sciences (Switzerland), 2020, 10, 3768.	1.3	7
32	Wireless Multi-Hop Energy-Efficient System for High-Density Seismic Array. IEEE Access, 2020, 8, 26054-26066.	2.6	12
33	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
34	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
35	Research on vibration sensor based on giant magnetoresistance effect. Review of Scientific Instruments, 2019, 90, 105001.	0.6	2
36	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

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37	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
38	An Integrated Energy-Efficient Wireless Sensor Node for the Microtremor Survey Method. Sensors, 2019, 19, 544.	2.1	19
39	Autonomous Operation Method of Multi-DOF Robotic Arm Based on Binocular Vision. Applied Sciences (Switzerland), 2019, 9, 5294.	1.3	8
40	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
41	Reference Noise Cancellation Based on Multi-vector Underground MRS. , 2019, , .		0
42	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
43	Monitoring temporal variations in instrument responses in regional broadband seismic network using ambient seismic noise. Geophysical Prospecting, 2018, 66, 1019-1036.	1.0	5
44	Hydrothermal synthesis of hierarchical CoO/SnO <sub>2</sub> nanostructures for ethanol gas sensor. Journal of Colloid and Interface Science, 2018, 513, 760-766.	5.0	75
45	Feasibility of signal enhancement with multiple grounded-wire sources for a frequency-domain electromagnetic survey. Geophysical Prospecting, 2018, 66, 818-832.	1.0	16
46	Comparison and Voltage Dependence Measurement in Phase Angle Errors of Two Voltage Dividers. , 2018, , .		1
47	Transmitting oscillation suppression of low-T <sub>c</sub> 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
48	On estimating time offsets in the ambient noise correlation function caused by instrument response errors. Acta Geophysica, 2018, 66, 1291-1301.	1.0	0
49	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
50	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
51	An Efficient Neural-Network-Based Microseismic Monitoring Platform for Hydraulic Fracture on an Edge Computing Architecture. Sensors, 2018, 18, 1828.	2.1	19
52	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
53	Divergence of tipper real induction vector in tensor frequency-domain ground-airborne electromagnetic method. , 2018, , .		1
54	Design of an On-Chip Highly Sensitive Misalignment Sensor in Silicon Technology. IEEE Sensors Journal, 2017, 17, 1211-1212.	2.4	18

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55	Global Optimization of Wireless Seismic Sensor Network Based on the Kriging Model and Improved Particle Swarm Optimization Algorithm. <i>Wireless Personal Communications</i> , 2017, 95, 2203-2222.	1.8	7
56	Design and application of a borehole“surface microseismic monitoring system. <i>Instrumentation Science and Technology</i> , 2017, 45, 233-247.	0.9	4
57	Anti-saturation system for surface nuclear magnetic resonance in efficient groundwater detection. <i>Review of Scientific Instruments</i> , 2017, 88, 064702.	0.6	15
58	Numerical Optimization of the Tube-Cored Induction Magnetometer Weight Under Specific Noise Constraints. <i>IEEE Sensors Journal</i> , 2017, 17, 3302-3308.	2.4	6
59	A seismic interpolation and denoising method with curvelet transform matching filter. <i>Acta Geophysica</i> , 2017, 65, 1029-1042.	1.0	11
60	Crustal structure beneath Liaoning province and the Bohai Sea and its adjacent region in China based on ambient noise tomography. <i>Earthquake Science</i> , 2017, 30, 1-15.	0.4	2
61	A dumbbell-shaped hybrid magnetometer operating in DC-10 kHz. <i>Review of Scientific Instruments</i> , 2017, 88, 125001.	0.6	2
62	A parametric study of microstrip-fed Vivaldi antenna. , 2017, , .		9
63	Development of a Rigid One-Meter-Side and Cooled Coil Sensor at 77 K for Magnetic Resonance Sounding to Detect Subsurface Water Sources. <i>Sensors</i> , 2017, 17, 1362.	2.1	16
64	Response Characteristics and Experimental Study of Underground Magnetic Resonance Sounding Using a Small-Coil Sensor. <i>Sensors</i> , 2017, 17, 2127.	2.1	8
65	MONITORING VARIATIONS IN FULL CROSS-CORRELATION FUNCTIONS AT REGIONAL SCALE USING AMBIENT NOISE RECORDS. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 2181-2190.	0.2	0
66	Dynamic Response Analysis of Microflow Electrochemical Sensors with Two Types of Elastic Membrane. <i>Sensors</i> , 2016, 16, 657.	2.1	3
67	An Optimized Air-Core Coil Sensor with a Magnetic Flux Compensation Structure Suitable to the Helicopter TEM System. <i>Sensors</i> , 2016, 16, 508.	2.1	18
68	PVDF tactile sensors for detecting contact force and slip: A review. <i>Ferroelectrics</i> , 2016, 504, 31-45.	0.3	38
69	Bipolar square-wave current source for transient electromagnetic systems based on constant shutdown time. <i>Review of Scientific Instruments</i> , 2016, 87, 034707.	0.6	7
70	Interaction between two adjacent grounded sources in frequency domain semi-airborne electromagnetic survey. <i>Review of Scientific Instruments</i> , 2016, 87, 034503.	0.6	26
71	Time-domain hyperbolic Radon transform for separation of P-P and P-SV wavefields. <i>Studia Geophysica Et Geodaetica</i> , 2016, 60, 91-111.	0.3	8
72	Control of two-stage matrix converter under unbalanced source voltages. , 2016, , .		2

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73	The enhanced CO gas sensing performance of Pd/SnO <sub>2</sub> hollow sphere sensors under hydrothermal conditions. RSC Advances, 2016, 6, 80455-80461.	1.7	15
74	Correction of a Towed Airborne Fluxgate Magnetic Tensor Gradiometer. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1837-1841.	1.4	19
75	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
76	Optimal Design of Low-Noise Induction Magnetometer in 1 mHz~10 kHz Utilizing Paralleled Dual-JFET Differential Pre-Amplifier. IEEE Sensors Journal, 2016, 16, 3580-3586.	2.4	11
77	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
78	Hierarchical High-speed No-blind Networks Used in Land Seismic Explorations. , 2016, , .		2
79	An Energy-Balanced Routing Algorithm in Wireless Seismic Sensor Network. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6823-6833.	0.4	1
80	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
81	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
82	Cascaded transmitter with output of 2n sequence pseudo-random waveform for semi-airborne frequency-domain electromagnetic exploration. , 2015, , .		6
83	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
84	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
85	Constant-current control method of multi-function electromagnetic transmitter. Review of Scientific Instruments, 2015, 86, 024501.	0.6	12
86	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
87	A case of fluxgate magnetic gradient tensor measurement system on microlight. , 2015, , .		1
88	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
89	Seismic exploration method to detect underground mined-out areas in the molybdenum mine. WIT Transactions on Engineering Sciences, 2015, , .	0.0	0
90	Initial Parameters of Voltage Stabilized Clamping Control for TEM Transmitting System. , 2015, , .		0

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91	Note: Improving the performance of a geophone through suspension system configuration. Review of Scientific Instruments, 2014, 85, 126104.	0.6	7
92	High-sensitivity cooled coil system for nuclear magnetic resonance in kHz range. Review of Scientific Instruments, 2014, 85, 114708.	0.6	23
93	Compact fluxgate magnetic full-tensor gradiometer with spherical feedback coil. Review of Scientific Instruments, 2014, 85, 014701.	0.6	32
94	Non-invasive characterization of water-bearing strata using a combination of geophysical techniques. Journal of Applied Geophysics, 2013, 91, 49-65.	0.9	7
95	Adaptive Analysis of Filter Methods for Magnetic Resonance Sounding. , 2013, , .		0
96	Application of artificial bee colony algorithm to maximum likelihood DOA estimation. Journal of Bionic Engineering, 2013, 10, 100-109.	2.7	25
97	Joint angle-frequency estimation based on WSF using Artificial Bee Colony algorithm. , 2013, , .		3
98	Parameter estimation of continuous model based on Marquardt algorithm. , 2012, , .		1
99	Asphericity Errors Correction of Magnetic Gradient Tensor Invariants Method for Magnetic Dipole Localization. IEEE Transactions on Magnetics, 2012, 48, 4701-4706.	1.2	39
100	PC-based artificial neural network inversion for airborne time-domain electromagnetic data. Applied Geophysics, 2012, 9, 1-8.	0.1	25
101	Statistical stacking and adaptive notch filter to remove high-level electromagnetic noise from MRS measurements. Near Surface Geophysics, 2011, 9, 459-468.	0.6	65
102	Comparison of Electromagnetic Vibrator and Impact Coding Source. , 2011, , .		2
103	Non-uniform field data inversion of fixed loop source TEM. , 2011, , .		0
104	Notice of Retraction: Development of high resolution and low noise transient electromagnetic receiver. , 2011, , .		0
105	Modeling of Seafloor Exploration Using Electric-source Frequency-Domain CSEM and the Analysis of Water Depth Effect. Chinese Journal of Geophysics, 2010, 53, 669-683.	0.2	5
106	Bandwidth auto-matching method for MRS signal. , 2010, , .		0
107	Frequency identification of fractional systems based on gain and phase data. , 2010, , .		0
108	Optimal parameters selection to satisfy optimum modulus theory. , 2010, , .		0

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109	The Optimal De-noising Algorithm for ECG Using Stationary Wavelet Transform. , 2009, , .		24
110	The Study on Non-cable Telemetry Seismograph for Metal Mineral Exploration. , 2009, , .		3
111	SNR Improvement of Seismic Signals in Different Time Delays. Chinese Journal of Geophysics, 2009, 52, 725-730.	0.2	2
112	Phase control technique of distributed vibrator array system. , 2008, , .		1
113	A Study of Blood Sugar Meter Embedded in Mobile Phone. , 2007, , .		0
114	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
115	Extracting reflection with wavelet transform in vibroseis signal processing. Journal of Geophysics and Engineering, 2006, 3, 236-242.	0.7	3
116	Parameter estimation of the non integer model of the striated muscle of a rabbit. , 0, , .		1