Longjun Dong

List of Publications by Year
in descending order

107 papers	3,697 citations	117571 34 h-index	143943 57 g-index
107 all docs	107 docs citations	107 times ranked	1937 citing authors

#	Article	IF	Citations
1	Failure mechanism and coupled static-dynamic loading theory in deep hard rock mining: A review. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 767-782.	3.7	305
2	Discrimination of Mine Seismic Events and Blasts Using the Fisher Classifier, Naive Bayesian Classifier and Logistic Regression. Rock Mechanics and Rock Engineering, 2016, 49, 183-211.	2.6	199
3	Some developments and new insights of environmental problems and deep mining strategy for cleaner production in mines. Journal of Cleaner Production, 2019, 210, 1562-1578.	4.6	177
4	Collaborative localization method using analytical and iterative solutions for microseismic/acoustic emission sources in the rockmass structure for underground mining. Engineering Fracture Mechanics, 2019, 210, 95-112.	2.0	136
5	Prediction of rockburst classification using Random Forest. Transactions of Nonferrous Metals Society of China, 2013, 23, 472-477.	1.7	134
6	Discriminant models of blasts and seismic events in mine seismology. International Journal of Rock Mechanics and Minings Sciences, 2016, 86, 282-291.	2.6	129
7	Velocity-Free MS/AE Source Location Method for Three-Dimensional Hole-Containing Structures. Engineering, 2020, 6, 827-834.	3.2	102
8	Some developments and new insights for environmental sustainability and disaster control of tailings dam. Journal of Cleaner Production, 2020, 269, 122270.	4.6	91
9	Implications for rock instability precursors and principal stress direction from rock acoustic experiments. International Journal of Mining Science and Technology, 2021, 31, 789-798.	4.6	86
10	Discrimination of seismic sources in an underground mine using full waveform inversion. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 213-222.	2.6	80
11	Interval non-probabilistic reliability of surrounding jointed rockmass considering microseismic loads in mining tunnels. Tunnelling and Underground Space Technology, 2018, 81, 326-335.	3.0	78
12	Qualitative Method and Case Study for Ground Vibration of Tunnels Induced by Fault-Slip in Underground Mine. Rock Mechanics and Rock Engineering, 2019, 52, 1887-1901.	2.6	74
13	Focal Mechanism of Mining-Induced Seismicity in Fault Zones: A Case Study of Yongshaba Mine in China. Rock Mechanics and Rock Engineering, 2019, 52, 3341-3352.	2.6	72
14	Ground motions induced by mining seismic events with different focal mechanisms. International Journal of Rock Mechanics and Minings Sciences, 2019, 116, 99-110.	2.6	70
15	Pre-Alarm System Based on Real-Time Monitoring and Numerical Simulation Using Internet of Things and Cloud Computing for Tailings Dam in Mines. IEEE Access, 2017, 5, 21080-21089.	2.6	69
16	Quantitative Investigation of Tomographic Effects in Abnormal Regions of Complex Structures. Engineering, 2021, 7, 1011-1022.	3.2	69
17	Velocity-Free Localization of Autonomous Driverless Vehicles in Underground Intelligent Mines. IEEE Transactions on Vehicular Technology, 2020, 69, 9292-9303.	3.9	69
18	Three Dimensional Comprehensive Analytical Solutions for Locating Sources of Sensor Networks in Unknown Velocity Mining System. IEEE Access, 2017, 5, 11337-11351.	2.6	68

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19	Theoretical and Experimental Studies of Localization Methodology for AE and Microseismic Sources Without Pre-Measured Wave Velocity in Mines. IEEE Access, 2017, 5, 16818-16828.	2.6	64
20	Mechanical behavior of rock-shotcrete interface under static and dynamic tensile loads. Tunnelling and Underground Space Technology, 2017, 65, 215-224.	3.0	59
21	Quantitative evaluation and case studies of cleaner mining with multiple indexes considering uncertainty factors for phosphorus mines. Journal of Cleaner Production, 2018, 183, 319-334.	4.6	55
22	Three-dimensional analytical solution of acoustic emission source location for cuboid monitoring network without pre-measured wave velocity. Transactions of Nonferrous Metals Society of China, 2015, 25, 293-302.	1.7	52
23	Energy conversion of rocks in process of unloading confining pressure under different unloading paths. Transactions of Nonferrous Metals Society of China, 2015, 25, 1626-1632.	1.7	51
24	Nonlinear Methodologies for Identifying Seismic Event and Nuclear Explosion Using Random Forest, Support Vector Machine, and Naive Bayes Classification. Abstract and Applied Analysis, 2014, 2014, 1-8.	0.3	50
25	Identifying P -phase arrivals with noise: An improved Kurtosis method based on DWT and STA/LTA. Journal of Applied Geophysics, 2016, 133, 50-61.	0.9	48
26	Three-dimensional analytical solution of acoustic emission or microseismic source location under cube monitoring network. Transactions of Nonferrous Metals Society of China, 2012, 22, 3087-3094.	1.7	47
27	A Microseismic/Acoustic Emission Source Location Method Using Arrival Times of PS Waves for Unknown Velocity System. International Journal of Distributed Sensor Networks, 2013, 9, 307489.	1.3	47
28	Comparisons of Random Forest and Support Vector Machine for Predicting Blasting Vibration Characteristic Parameters. Procedia Engineering, 2011, 26, 1772-1781.	1.2	43
29	Classification of mine blasts and microseismic events using starting-up features in seismograms. Transactions of Nonferrous Metals Society of China, 2015, 25, 3410-3420.	1.7	42
30	An efficient closed-form solution for acoustic emission source location in three-dimensional structures. AIP Advances, 2014, 4, .	0.6	41
31	Dynamic Brazilian Splitting Test of Ring-Shaped Specimens with Different Hole Diameters. Rock Mechanics and Rock Engineering, 2016, 49, 4143-4151.	2.6	39
32	Empty region identification method and experimental verification for the two-dimensional complex structure. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104885.	2.6	39
33	Acoustic Emission Source Location and Experimental Verification for Two-Dimensional Irregular Complex Structure. IEEE Sensors Journal, 2020, 20, 2679-2691.	2.4	37
34	Effects of sonic speed on location accuracy of acoustic emission source in rocks. Transactions of Nonferrous Metals Society of China, 2011, 21, 2719-2726.	1.7	36
35	Investigations and new insights on earthquake mechanics from fault slip experiments. Earth-Science Reviews, 2022, 228, 104019.	4.0	34
36	Stability analysis and comprehensive treatment methods of landslides under complex mining environmentâ€"A case study of Dahu landslide from Linbao Henan in China. Safety Science, 2012, 50, 695-704.	2.6	31

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37	Enhancing micro-seismic P-phase arrival picking: EMD-cosine function-based denoising with an application to the AIC picker. Journal of Applied Geophysics, 2018, 150, 325-337.	0.9	31
38	Time-lapse seismic tomography of an underground mining zone. International Journal of Rock Mechanics and Minings Sciences, 2018, 107, 136-149.	2.6	31
39	Experimental study on the location of an acoustic emission source considering refraction in different media. Scientific Reports, 2017, 7, 7472.	1.6	30
40	Acoustic emission source location method and experimental verification for structures containing unknown empty areas. International Journal of Mining Science and Technology, 2022, 32, 487-497.	4.6	29
41	Exploration: Safe and clean mining on Earth and asteroids. Journal of Cleaner Production, 2020, 257, 120899.	4.6	28
42	Comprehensive Models for Evaluating Rockmass Stability Based on Statistical Comparisons of Multiple Classifiers. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	27
43	Locating an Acoustic Emission Source in Multilayered Media Based on the Refraction Path Method. IEEE Access, 2018, 6, 25090-25099.	2.6	27
44	Acoustic Emission b Value Characteristics of Granite under True Triaxial Stress. Mathematics, 2022, 10, 451.	1.1	27
45	Locating single-point sources from arrival times containing large picking errors (LPEs): the virtual field optimization method (VFOM). Scientific Reports, 2016, 6, 19205.	1.6	26
46	A Multi-Step Source Localization Method With Narrowing Velocity Interval of Cyber-Physical Systems in Buildings. IEEE Access, 2017, 5, 20207-20219.	2.6	26
47	Early-Warning System With Quasi-Distributed Fiber Optic Sensor Networks and Cloud Computing for Soil Slopes. IEEE Access, 2017, 5, 25437-25444.	2.6	26
48	Micro-Crack Mechanism in the Fracture Evolution of Saturated Granite and Enlightenment to the Precursors of Instability. Sensors, 2020, 20, 4595.	2.1	26
49	Early Identification of Abnormal Regions in Rock-Mass Using Traveltime Tomography. Engineering, 2023, 22, 191-200.	3.2	26
50	An Analytical Solution for Acoustic Emission Source Location for Known P Wave Velocity System. Mathematical Problems in Engineering, 2014, 2014, 1-6.	0.6	25
51	Combined effects of temperature and axial pressure on dynamic mechanical properties of granite. Transactions of Nonferrous Metals Society of China, 2016, 26, 2209-2219.	1.7	24
52	Comparison of Two Methods in Acoustic Emission Source Location Using Four Sensors Without Measuring Sonic Speed. Sensor Letters, 2011, 9, 2025-2029.	0.4	24
53	A Comparison of Mine Seismic Discriminators Based on Features of Source Parameters to Waveform Characteristics. Shock and Vibration, 2015, 2015, 1-10.	0.3	22
54	Interval Non-Probabilistic Reliability of a Surrounding Jointed Rockmass in Underground Engineering: A Case Study. IEEE Access, 2017, 5, 18804-18817.	2.6	22

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55	Study on the interface reaction behavior of NiCrAlY coating on titanium alloy. Surface and Coatings Technology, 2013, 232, 254-263.	2.2	20
56	Emergency Resource Allocation for Multi-Period Post-Disaster Using Multi-Objective Cellular Genetic Algorithm. IEEE Access, 2020, 8, 82255-82265.	2.6	20
57	Quantitative Evaluation and Case Study of Risk Degree for Underground Goafs with Multiple Indexes considering Uncertain Factors in Mines. Geofluids, 2017, 2017, 1-15.	0.3	18
58	A New Closed-Form Solution for Acoustic Emission Source Location in the Presence of Outliers. Applied Sciences (Switzerland), 2018, 8, 949.	1.3	18
59	Some Developments and New Insights for Microseismic/Acoustic Emission Source Localization. Shock and Vibration, 2019, 2019, 1-15.	0.3	17
60	Implications for identification of principal stress directions from acoustic emission characteristics of granite under biaxial compression experiments. Journal of Rock Mechanics and Geotechnical Engineering, 2023, 15, 852-863.	3.7	17
61	Wavelet threshold de-noising of rock acoustic emission signals subjected to dynamic loads. Journal of Geophysics and Engineering, 2018, 15, 1160-1170.	0.7	16
62	A New Acoustic Emission Source Location Method Using Tri-Variate Kernel Density Estimator. IEEE Access, 2019, 7, 158379-158388.	2.6	16
63	Theoretical and Case Studies of Interval Nonprobabilistic Reliability for Tailing Dam Stability. Geofluids, 2017, 2017, 1-11.	0.3	15
64	Unascertained measurement classifying model of goaf collapse prediction. Science in China Series A: Mathematics, 2008, 14, 221-224.	0.2	14
65	Optimization model of unascertained measurement for underground mining method selection and its application. Central South University, 2010, 17, 744-749.	0.5	14
66	Conventional triaxial compression on hollow cylinders of sandstone with various fillings: Relationship of surrounding rock with support. Journal of Central South University, 2018, 25, 1976-1986.	1.2	14
67	Relocation method of microseismic source in deep mines. Transactions of Nonferrous Metals Society of China, 2016, 26, 2988-2996.	1.7	12
68	An Improved P-Phase Arrival Picking Method S/L-K-A with an Application to the Yongshaba Mine in China. Pure and Applied Geophysics, 2018, 175, 2121-2139.	0.8	11
69	Dynamic Stability Analysis of Rockmass: A Review. Advances in Civil Engineering, 2018, 2018, 1-22.	0.4	11
70	Influence of Flaw Inclination Angle on Unloading Responses of Brittle Rock in Deep Underground. Geofluids, 2019, 2019, 1-16.	0.3	11
71	Acoustic Emission Location Method for Quasi-Cylindrical Structure With Complex Hole. IEEE Access, 2020, 8, 35263-35275.	2.6	11
72	Machine Learning Based Identification of Microseismic Signals Using Characteristic Parameters. Sensors, 2021, 21, 6967.	2.1	11

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73	A New Algebraic Solution for Acoustic Emission Source Localization without Premeasuring Wave Velocity. Sensors, 2021, 21, 459.	2.1	10
74	Mechanical Characteristics for Rocks under Different Paths and Unloading Rates under Confining Pressures. Shock and Vibration, 2015, 2015, 1-8.	0.3	9
75	A novel robust method for acoustic emission source location using DBSCAN principle. Measurement: Journal of the International Measurement Confederation, 2022, 191, 110812.	2.5	9
76	Machine Learning Assessment for Severity of Liver Fibrosis for Chronic HBV Based on Physical Layer With Serum Markers. IEEE Access, 2019, 7, 124351-124365.	2.6	8
77	A Waveform Image Method for Discriminating Micro-Seismic Events and Blasts in Underground Mines. Sensors, 2020, 20, 4322.	2.1	8
78	Experimental investigations of direct measurement of borehole wall pressure under decoupling charge. Tunnelling and Underground Space Technology, 2022, 120, 104280.	3.0	8
79	Effect of Chemical Corrosion and Axial Compression on the Dynamic Strength Degradation Characteristics of White Sandstone under Cyclic Impact. Minerals (Basel, Switzerland), 2022, 12, 429.	0.8	8
80	Ablation behavior of NiCrAlY coating on titanium alloy muzzle brake. Surface and Coatings Technology, 2013, 232, 690-694.	2.2	7
81	Experimental Study on Backfilling Mine Goafs with Chemical Waste Phosphogypsum. Geofluids, 2019, 2019, 1-12.	0.3	7
82	Non-Destructive Testing for Cavity Damages in Automated Machines Based on Acoustic Emission Tomography. Sensors, 2022, 22, 2201.	2.1	6
83	Rock strength interval analysis using theory of testing blind data and interval estimation. Journal of Central South University, 2017, 24, 168-177.	1.2	5
84	Buckling failures of reserved thin pillars under the combined action of in-plane and lateral hydrostatic compressive forces. Computers and Geotechnics, 2017, 87, 128-138.	2.3	5
85	Stress Heterogeneity and Slip Weakening of Faults under Various Stress and Slip. Geofluids, 2020, 2020, 1-12.	0.3	5
86	Influence of Early Age on the Wave Velocity and Dynamic Compressive Strength of Concrete Based on Split Hopkinson Pressure Bar Tests. Shock and Vibration, 2018, 2018, 1-8.	0.3	4
87	An Application of Grey-General Regression Neural Network for Predicting Landslide Deformation of Dahu Mine in China. Advanced Science Letters, 2012, 6, 577-581.	0.2	4
88	A Cleaner Mining Method for Waste Tailings as Paste Materials to Goafs. Geofluids, 2020, 2020, 1-16.	0.3	3
89	Safety Pre-Control of Stope Roof Fall Accidents Using Combined Event Tree and Fuzzy Numbers in China's Underground Noncoal Mines. IEEE Access, 2020, 8, 177615-177622.	2.6	3
90	Nonlinear Model-Based Support Vector Machine for Predicting Rock Mechanical Behaviors. Advanced Science Letters, 2012, 5, 806-810.	0.2	3

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91	Comprehensive Evaluation Model-Based Fuzzy Math of Tailings Dam Stability. Applied Mechanics and Materials, 2010, 44-47, 3408-3412.	0.2	2
92	Phreatic Line Predicted Method-Based SVM for Stability Analysis of Tailing Dam. Applied Mechanics and Materials, 0, 44-47, 3398-3402.	0.2	2
93	Mobility Support for Next-Generation Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2016, 12, 2462754.	1.3	2
94	K-Means Cluster for Seismicity Partitioning and Geological Structure Interpretation, with Application to the Yongshaba Mine (China). Shock and Vibration, 2017, 2017, 1-11.	0.3	2
95	Investigating Factors Influencing Moment Tensor Inversion of Induced Seismicity in Virtual IoT. IEEE Access, 2019, 7, 34238-34251.	2.6	2
96	Optimization for U-Shaped Steel Support in Deep Tunnels under Coupled Static-Dynamic Loading. Advances in Civil Engineering, 2019, 2019, 1-19.	0.4	2
97	Localization and Discrimination of Microseismic/AE Sources in Mining: From Data to Information. Springer Proceedings in Physics, 2021, , 3-16.	0.1	2
98	Anomalous Areas Detection in Rocks Using Time-Difference Adjoint Tomography. Mathematics, 2022, 10, 1069.	1.1	2
99	Statistical Precursor of Induced Seismicity Using Temporal and Spatial Characteristics of Seismic Sequence in Mines. Springer Proceedings in Physics, 2019, , 409-420.	0.1	1
100	Shock and Vibration in Deep Mining Science. Shock and Vibration, 2019, 2019, 1-3.	0.3	1
101	An Acoustic Emission Source Localization Method Based Ant Colony Without Premeasured Velocity. Springer Proceedings in Physics, 2021, , 71-78.	0.1	1
102	Evaluation Coupling Model of Mine Ventilation System Based on RS and ANN. , 2009, , .		0
103	Forecast Model of Phreatic Surface on Tailings Dam Based on GM-GRNN Theory. Applied Mechanics and Materials, 0, 44-47, 3403-3407.	0.2	0
104	Study of Fuzzy Random Reliability Model of Tailings Dam under Earthquake Action. Applied Mechanics and Materials, 2010, 44-47, 3393-3397.	0.2	0
105	Editorial: Physics and Seismicity of Rocks. Frontiers in Physics, 2021, 9, .	1.0	0
106	Application of Multistep Source Localization Method with Narrowing Velocity Interval in Mines. Springer Proceedings in Physics, 2019, , 399-408.	0.1	0
107	Mining Safety and Sustainability—An Overview. Sustainability, 2022, 14, 6570.	1.6	0