

# Jian Zhou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9464673/publications.pdf>

Version: 2024-02-01

145  
papers

7,732  
citations

38660

50  
h-index

62479

80  
g-index

145  
all docs

145  
docs citations

145  
times ranked

2688  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of Rockburst in Underground Projects: Comparison of Ten Supervised Learning Methods. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	2.5	304
2	Long-term prediction model of rockburst in underground openings using heuristic algorithms and support vector machines. <i>Safety Science</i> , 2012, 50, 629-644.	2.6	300
3	Evaluation method of rockburst: State-of-the-art literature review. <i>Tunnelling and Underground Space Technology</i> , 2018, 81, 632-659.	3.0	294
4	Slope stability prediction for circular mode failure using gradient boosting machine approach based on an updated database of case histories. <i>Safety Science</i> , 2019, 118, 505-518.	2.6	218
5	Experimental Study of Slabbing and Rockburst Induced by True-Triaxial Unloading and Local Dynamic Disturbance. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3437-3453.	2.6	212
6	A Comparative Study of PSO-ANN, GA-ANN, ICA-ANN, and ABC-ANN in Estimating the Heating Load of Buildingsâ€™ Energy Efficiency for Smart City Planning. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2630.	1.3	205
7	Optimization of support vector machine through the use of metaheuristic algorithms in forecasting TBM advance rate. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 97, 104015.	4.3	195
8	Predicting TBM penetration rate in hard rock condition: A comparative study among six XGB-based metaheuristic techniques. <i>Geoscience Frontiers</i> , 2021, 12, 101091.	4.3	170
9	Comparative performance of six supervised learning methods for the development of models of hard rock pillar stability prediction. <i>Natural Hazards</i> , 2015, 79, 291-316.	1.6	161
10	Feasibility of Random-Forest Approach for Prediction of Ground Settlements Induced by the Construction of a Shield-Driven Tunnel. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	160
11	Supervised Machine Learning Techniques to the Prediction of Tunnel Boring Machine Penetration Rate. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3715.	1.3	155
12	Random Forests and Cubist Algorithms for Predicting Shear Strengths of Rockfill Materials. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1621.	1.3	152
13	Estimation of the TBM advance rate under hard rock conditions using XGBoost and Bayesian optimization. <i>Underground Space (China)</i> , 2021, 6, 506-515.	3.4	129
14	Prediction of ground vibration induced by blasting operations through the use of the Bayesian Network and random forest models. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 139, 106390.	1.9	123
15	Performance evaluation of hybrid WOA-XGBoost, GWO-XGBoost and BO-XGBoost models to predict blast-induced ground vibration. <i>Engineering With Computers</i> , 2022, 38, 4145-4162.	3.5	119
16	Developing a hybrid model of Jaya algorithm-based extreme gradient boosting machine to estimate blast-induced ground vibrations. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 145, 104856.	2.6	117
17	Deep neural network and whale optimization algorithm to assess flyrock induced by blasting. <i>Engineering With Computers</i> , 2021, 37, 173-186.	3.5	107
18	Support vector machines approach to mean particle size of rock fragmentation due to bench blasting prediction. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 432-441.	1.7	106

#	ARTICLE	IF	CITATIONS
19	A Monte Carlo simulation approach for effective assessment of flyrock based on intelligent system of neural network. <i>Engineering With Computers</i> , 2020, 36, 713-723.	3.5	97
20	Developing a hybrid model of salp swarm algorithm-based support vector machine to predict the strength of fiber-reinforced cemented paste backfill. <i>Engineering With Computers</i> , 2021, 37, 3519-3540.	3.5	97
21	Feasibility of Stochastic Gradient Boosting Approach for Evaluating Seismic Liquefaction Potential Based on SPT and CPT Case Histories. <i>Journal of Performance of Constructed Facilities</i> , 2019, 33, .	1.0	95
22	Compressive behavior and microstructural properties of tailings polypropylene fibre-reinforced cemented paste backfill. <i>Construction and Building Materials</i> , 2018, 190, 211-221.	3.2	89
23	Performance evaluation of hybrid FFA-ANFIS and GA-ANFIS models to predict particle size distribution of a muck-pile after blasting. <i>Engineering With Computers</i> , 2021, 37, 265-274.	3.5	89
24	Estimating the Heating Load of Buildings for Smart City Planning Using a Novel Artificial Intelligence Technique PSO-XGBoost. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2714.	1.3	87
25	Utilizing gradient boosted machine for the prediction of damage to residential structures owing to blasting vibrations of open pit mining. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 3986-3997.	1.5	84
26	Experimental study of strength characteristics of coal specimens after water intrusion. <i>Arabian Journal of Geosciences</i> , 2015, 8, 6779-6789.	0.6	83
27	Effect of overflow tailings properties on cemented paste backfill. <i>Journal of Environmental Management</i> , 2019, 235, 133-144.	3.8	78
28	Rockburst prediction in hard rock mines developing bagging and boosting tree-based ensemble techniques. <i>Journal of Central South University</i> , 2021, 28, 527-542.	1.2	78
29	Prediction of slope failure in open-pit mines using a novel hybrid artificial intelligence model based on decision tree and evolution algorithm. <i>Scientific Reports</i> , 2020, 10, 9939.	1.6	77
30	Assessment of Longstanding Effects of Fly Ash and Silica Fume on the Compressive Strength of Concrete Using Extreme Learning Machine and Artificial Neural Network. <i>Khoa Há»c á»©ng Dá»ng</i> , 2021, 5, 50.	1.5	75
31	Investigating the effective parameters on the risk levels of rockburst phenomena by developing a hybrid heuristic algorithm. <i>Engineering With Computers</i> , 2021, 37, 1679.	3.5	74
32	Proposing a novel comprehensive evaluation model for the coal burst liability in underground coal mines considering uncertainty factors. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 799-812.	4.6	74
33	Computational Intelligence Model for Estimating Intensity of Blast-Induced Ground Vibration in a Mine Based on Imperialist Competitive and Extreme Gradient Boosting Algorithms. <i>Natural Resources Research</i> , 2020, 29, 751-769.	2.2	72
34	Use of Intelligent Methods to Design Effective Pattern Parameters of Mine Blasting to Minimize Flyrock Distance. <i>Natural Resources Research</i> , 2020, 29, 625-639.	2.2	70
35	Prediction of rockburst risk in underground projects developing a neuro-bee intelligent system. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 4265-4279.	1.6	70
36	A Combination of Feature Selection and Random Forest Techniques to Solve a Problem Related to Blast-Induced Ground Vibration. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 869.	1.3	67

#	ARTICLE	IF	CITATIONS
37	Optimization of random forest through the use of MVO, GWO and MFO in evaluating the stability of underground entry-type excavations. <i>Tunnelling and Underground Space Technology</i> , 2022, 124, 104494.	3.0	64
38	Forecasting of TBM advance rate in hard rock condition based on artificial neural network and genetic programming techniques. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 2069-2084.	1.6	63
39	Prediction of blasting mean fragment size using support vector regression combined with five optimization algorithms. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 1380-1397.	3.7	63
40	Prediction of Blast-Induced Rock Movement During Bench Blasting: Use of Gray Wolf Optimizer and Support Vector Regression. <i>Natural Resources Research</i> , 2020, 29, 843-865.	2.2	62
41	Effective Assessment of Blast-Induced Ground Vibration Using an Optimized Random Forest Model Based on a Harris Hawks Optimization Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1403.	1.3	62
42	Multi-planar detection optimization algorithm for the interval charging structure of large-diameter longhole blasting design based on rock fragmentation aspects. <i>Engineering Optimization</i> , 2018, 50, 2177-2191.	1.5	61
43	Stability analysis of underground mine hard rock pillars via combination of finite difference methods, neural networks, and Monte Carlo simulation techniques. <i>Underground Space (China)</i> , 2021, 6, 379-395.	3.4	61
44	Predicting tunnel squeezing using support vector machine optimized by whale optimization algorithm. <i>Acta Geotechnica</i> , 2022, 17, 1343-1366.	2.9	60
45	Short-delay blasting with single free surface: Results of experimental tests. <i>Tunnelling and Underground Space Technology</i> , 2018, 74, 119-130.	3.0	59
46	Development of a new methodology for estimating the amount of PPV in surface mines based on prediction and probabilistic models (GEP-MC). <i>International Journal of Mining, Reclamation and Environment</i> , 2021, 35, 48-68.	1.2	59
47	Predicting roof displacement of roadways in underground coal mines using adaptive neuro-fuzzy inference system optimized by various physics-based optimization algorithms. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 1452-1465.	3.7	58
48	Feasibility of stochastic gradient boosting approach for predicting rockburst damage in burst-prone mines. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1938-1945.	1.7	57
49	Continuous-variable measurement-device-independent multipartite quantum communication. <i>Physical Review A</i> , 2016, 93, .	1.0	56
50	Random Forest and Bayesian Network Techniques for Probabilistic Prediction of Flyrock Induced by Blasting in Quarry Sites. <i>Natural Resources Research</i> , 2020, 29, 655-667.	2.2	55
51	Novel approach for forecasting the blast-induced AOp using a hybrid fuzzy system and firefly algorithm. <i>Engineering With Computers</i> , 2020, 36, 703-712.	3.5	54
52	A new hybrid simulated annealing-based genetic programming technique to predict the ultimate bearing capacity of piles. <i>Engineering With Computers</i> , 2021, 37, 2111.	3.5	50
53	An optimized system of GMDH-ANFIS predictive model by ICA for estimating pile bearing capacity. <i>Artificial Intelligence Review</i> , 2022, 55, 2313-2350.	9.7	50
54	High strain rate compressive strength behavior of cemented paste backfill using split Hopkinson pressure bar. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 387-399.	4.6	49

#	ARTICLE	IF	CITATIONS
55	Performance evaluation of hybrid GA-SVM and GWO-SVM models to predict earthquake-induced liquefaction potential of soil: a multi-dataset investigation. <i>Engineering With Computers</i> , 2022, 38, 4197-4215.	3.5	49
56	Predicting the sorption efficiency of heavy metal based on the biochar characteristics, metal sources, and environmental conditions using various novel hybrid machine learning models. <i>Chemosphere</i> , 2021, 276, 130204.	4.2	49
57	Predicting rock size distribution in mine blasting using various novel soft computing models based on meta-heuristics and machine learning algorithms. <i>Geoscience Frontiers</i> , 2021, 12, 101108.	4.3	48
58	Genetic prediction of ICU hospitalization and mortality in COVID-19 patients using artificial neural networks. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1445-1455.	1.6	45
59	Employing a genetic algorithm and grey wolf optimizer for optimizing RF models to evaluate soil liquefaction potential. <i>Artificial Intelligence Review</i> , 2022, 55, 5673-5705.	9.7	45
60	Determination of mechanical, flowability, and microstructural properties of cemented tailings backfill containing rice straw. <i>Construction and Building Materials</i> , 2020, 246, 118520.	3.2	44
61	A hybrid metaheuristic approach using random forest and particle swarm optimization to study and evaluate backbreak in open-pit blasting. <i>Neural Computing and Applications</i> , 2022, 34, 6273-6288.	3.2	44
62	Predicting pillar stability for underground mine using Fisher discriminant analysis and SVM methods. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 2734-2743.	1.7	43
63	Charge design scheme optimization for ring blasting based on the developed Scaled Heelan model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 110, 199-209.	2.6	41
64	Performance of Hybrid SCA-RF and HHO-RF Models for Predicting Backbreak in Open-Pit Mine Blasting Operations. <i>Natural Resources Research</i> , 2021, 30, 4753-4771.	2.2	40
65	A novel systematic and evolved approach based on XGBoost-firefly algorithm to predict Young's modulus and unconfined compressive strength of rock. <i>Engineering With Computers</i> , 2022, 38, 3829-3845.	3.5	40
66	Fisher discriminant analysis model and its application for prediction of classification of rockburst in deep-buried long tunnel. <i>Science in China Series A: Mathematics</i> , 2010, 16, 144-149.	0.2	39
67	Improving the efficiency of microseismic source locating using a heuristic algorithm-based virtual field optimization method. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	39
68	Prediction of TBM performance in fresh through weathered granite using empirical and statistical approaches. <i>Tunnelling and Underground Space Technology</i> , 2021, 118, 104183.	3.0	39
69	A Novel Combination of Tree-Based Modeling and Monte Carlo Simulation for Assessing Risk Levels of Flyrock Induced by Mine Blasting. <i>Natural Resources Research</i> , 2021, 30, 225-243.	2.2	38
70	Feasibility of the indirect determination of blast-induced rock movement based on three new hybrid intelligent models. <i>Engineering With Computers</i> , 2021, 37, 991-1006.	3.5	38
71	Rock damage control for large-diameter-hole lateral blasting excavation based on charge structure optimization. <i>Tunnelling and Underground Space Technology</i> , 2020, 106, 103569.	3.0	37
72	Shape ratio effects on the mechanical characteristics of rectangular prism rocks and isolated pillars under uniaxial compression. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 347-362.	4.6	37

#	ARTICLE	IF	CITATIONS
73	Artificial intelligence model for studying unconfined compressive performance of fiber-reinforced cemented paste backfill. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 1087-1102.	1.7	35
74	Proposing several hybrid PSO-extreme learning machine techniques to predict TBM performance. <i>Engineering With Computers</i> , 2022, 38, 3811-3827.	3.5	34
75	Dynamic fracture behaviour and evolution mechanism of soft coal with different porosities and water contents. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 103, 102265.	2.1	33
76	Identification of large-scale goaf instability in underground mine using particle swarm optimization and support vector machine. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 701-707.	4.6	32
77	Intelligent rockburst prediction model with sample category balance using feedforward neural network and Bayesian optimization. <i>Underground Space (China)</i> , 2022, 7, 833-846.	3.4	32
78	Six Novel Hybrid Extreme Learning Machine–Swarm Intelligence Optimization (ELM–SIO) Models for Predicting Backbreak in Open-Pit Blasting. <i>Natural Resources Research</i> , 2022, 31, 3017-3039.	2.2	32
79	A new multikernel relevance vector machine based on the HPSOGWO algorithm for predicting and controlling blast-induced ground vibration. <i>Engineering With Computers</i> , 2022, 38, 1905-1920.	3.5	30
80	A GMDH Predictive Model to Predict Rock Material Strength Using Three Non-destructive Tests. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	1.1	30
81	Arbitrated quantum signature scheme with quantum walk-based teleportation. <i>Quantum Information Processing</i> , 2019, 18, 1.	1.0	29
82	Experimental investigations on mechanical performance of rocks under fatigue loads and biaxial confinements. <i>Journal of Central South University</i> , 2020, 27, 2985-2998.	1.2	29
83	A refreshing view of soft computing models for predicting the deflection of reinforced concrete beams. <i>Applied Soft Computing Journal</i> , 2020, 97, 106831.	4.1	29
84	Novel Ensemble Tree Solution for Rockburst Prediction Using Deep Forest. <i>Mathematics</i> , 2022, 10, 787.	1.1	29
85	Cross-correlation stacking-based microseismic source location using three metaheuristic optimization algorithms. <i>Tunnelling and Underground Space Technology</i> , 2022, 126, 104570.	3.0	29
86	Analysis and prediction of diaphragm wall deflection induced by deep braced excavations using finite element method and artificial neural network optimized by metaheuristic algorithms. <i>Reliability Engineering and System Safety</i> , 2022, 221, 108335.	5.1	28
87	Novel ensemble intelligence methodologies for rockburst assessment in complex and variable environments. <i>Scientific Reports</i> , 2022, 12, 1844.	1.6	27
88	COSMA-RF: New intelligent model based on chaos optimized slime mould algorithm and random forest for estimating the peak cutting force of conical picks. <i>Transportation Geotechnics</i> , 2022, 36, 100806.	2.0	27
89	Fiber-Reinforced Cemented Paste Backfill: The Effect of Fiber on Strength Properties and Estimation of Strength Using Nonlinear Models. <i>Materials</i> , 2020, 13, 718.	1.3	26
90	Attenuation assessment of blast-induced vibrations derived from an underground mine. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 127, 104220.	2.6	26

#	ARTICLE	IF	CITATIONS
91	Modeling of rock fragmentation by firefly optimization algorithm and boosted generalized additive model. <i>Neural Computing and Applications</i> , 2021, 33, 3503-3519.	3.2	25
92	Improved Levenberg-Marquardt backpropagation neural network by particle swarm and whale optimization algorithms to predict the deflection of RC beams. <i>Engineering With Computers</i> , 2022, 38, 3847-3869.	3.5	25
93	Integrating unascertained measurement and information entropy theory to assess blastability of rock mass. <i>Journal of Central South University</i> , 2012, 19, 1953-1960.	1.2	22
94	A Combination of Expert-Based System and Advanced Decision-Tree Algorithms to Predict Air-Overpressure Resulting from Quarry Blasting. <i>Natural Resources Research</i> , 2021, 30, 1889-1903.	2.2	22
95	Experimental investigation and theoretical analysis of indentations on cuboid hard rock using a conical pick under uniaxial lateral stress. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, 1.	1.3	22
96	Damage constitutive model of different age concretes under impact load. <i>Journal of Central South University</i> , 2015, 22, 693-700.	1.2	21
97	Application of Hilbert-Huang transform based delay time identification in optimization of short millisecond blasting. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1965-1974.	1.7	21
98	CFD Simulation of Pipeline Transport Properties of Mine Tailings Three-Phase Foam Slurry Backfill. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 149.	0.8	21
99	Propagation Characteristics of Blast-Induced Vibration in Parallel Jointed Rock Mass. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	21
100	Optimization of postblast ore boundary determination using a novel sine cosine algorithm-based random forest technique and Monte Carlo simulation. <i>Engineering Optimization</i> , 2021, 53, 1467-1482.	1.5	21
101	Feasibility of Recycling Ultrafine Leaching Residue by Backfill: Experimental and CFD Approaches. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 54.	0.8	20
102	A new hybrid model of information entropy and unascertained measurement with different membership functions for evaluating destressability in burst-prone underground mines. <i>Engineering With Computers</i> , 2022, 38, 381-399.	3.5	20
103	Developing a hybrid model of information entropy and unascertained measurement theory for evaluation of the excavatability in rock mass. <i>Engineering With Computers</i> , 2022, 38, 247-270.	3.5	20
104	Intelligent modeling of blast-induced rock movement prediction using dimensional analysis and optimized artificial neural network technique. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 143, 104794.	2.6	19
105	Influence of Polypropylene Fiber Reinforcement on Tensile Behavior and Failure Mode of Tailings Cemented Paste Backfill. <i>IEEE Access</i> , 2019, 7, 69015-69026.	2.6	18
106	Waveform features and failure patterns of hollow cylindrical sandstone specimens under repetitive impact and triaxial confinements. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2020, 6, 1.	1.3	18
107	Stress-strain relationship of sandstone under confining pressure with repetitive impact. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	18
108	Development of a hybrid artificial intelligence model to predict the uniaxial compressive strength of a new aseismic layer made of rubber-sand concrete. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2185-2202.	1.5	18

#	ARTICLE	IF	CITATIONS
109	Motion parameter estimation and measured data correction derived from blast-induced vibration: New insights. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 135, 213-230.	2.5	17
110	Dynamic Failure Properties of Sandstone Under Radial Gradient Stress and Cyclical Impact Loading. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	16
111	Performance Evaluation of Hybrid WOA-SVR and HHO-SVR Models with Various Kernels to Predict Factor of Safety for Circular Failure Slope. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1922.	1.3	16
112	Novel Extreme Learning Machine-Multi-Verse Optimization Model for Predicting Peak Particle Velocity Induced by Mine Blasting. <i>Natural Resources Research</i> , 2021, 30, 4735-4751.	2.2	16
113	Optimal Charge Scheme Calculation for Multiring Blasting Using Modified Harries Mathematical Model. <i>Journal of Performance of Constructed Facilities</i> , 2019, 33, 04019002.	1.0	15
114	Novel approach to evaluate rock mass fragmentation in block caving using unascertained measurement model and information entropy with flexible credible identification criterion. <i>Engineering With Computers</i> , 2022, 38, 3789-3809.	3.5	15
115	Neuro-swarm and neuro-imperialism techniques to investigate the compressive strength of concrete constructed by freshwater and magnetic salty water. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 182, 109720.	2.5	15
116	Novel integrated approaches for predicting the compressibility of clay using cascade forward neural networks optimized by swarm- and evolution-based algorithms. <i>Acta Geotechnica</i> , 2022, 17, 1257-1272.	2.9	15
117	A study on raise blasting and blast-induced vibrations in highly stressed rock masses. <i>Tunnelling and Underground Space Technology</i> , 2022, 123, 104407.	3.0	15
118	Long-distance continuous-variable quantum key distribution using separable Gaussian states. <i>Physical Review A</i> , 2018, 98, .	1.0	14
119	Development of hybrid models using metaheuristic optimization techniques to predict the carbonation depth of fly ash concrete. <i>Construction and Building Materials</i> , 2022, 346, 128483.	3.2	14
120	Prediction of Classification of Rock Burst Risk Based on Genetic Algorithms with SVM. <i>Applied Mechanics and Materials</i> , 0, 628, 383-389.	0.2	13
121	Low amplitude fatigue performance of sandstone, marble, and granite under high static stress. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	13
122	Study on Rock Damage Mechanism for Lateral Blasting under High In Situ Stresses. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4992.	1.3	12
123	Advanced Prediction of Roadway Broken Rock Zone Based on a Novel Hybrid Soft Computing Model Using Gaussian Process and Particle Swarm Optimization. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6031.	1.3	10
124	Stochastic assessment of hard rock pillar stability based on the geological strength index system. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	10
125	Evaluation of vertical shaft stability in underground mines: comparison of three weight methods with uncertainty theory. <i>Natural Hazards</i> , 2021, 109, 1457-1479.	1.6	10
126	A Comparative Study of Ground and Underground Vibrations Induced by Bench Blasting. <i>Shock and Vibration</i> , 2016, 2016, 1-9.	0.3	9



#	ARTICLE	IF	CITATIONS
127	Development of Ground Movements Due to a Shield Tunnelling Prediction Model Using Random Forests. , 2016, , .		9
128	Prediction Residential House's Damage Effect Near Openpit Against Blasting Vibration Based on SVM with Grid Searching Method/Genetic Algorithm. Advanced Science Letters, 2012, 11, 238-243.	0.2	9
129	Investigating the Slurry Fluidity and Strength Characteristics of Cemented Backfill and Strength Prediction Models by Developing Hybrid GA-SVR and PSO-SVR. Mining, Metallurgy and Exploration, 2022, 39, 433-452.	0.4	8
130	An Expert Artificial Intelligence Model for Discriminating Microseismic Events and Mine Blasts. Applied Sciences (Switzerland), 2021, 11, 6474.	1.3	7
131	Squeezed-state quantum key distribution with a Rindler observer. Quantum Information Processing, 2018, 17, 1.	1.0	6
132	Dynamic Compressive Characteristics of Sandstone under Confining Pressure and Radial Gradient Stress with the SHPB Test. Advances in Civil Engineering, 2018, 2018, 1-8.	0.4	6
133	Experimental and Numerical Investigation of Blast-Induced Vibration for Short-Delay Cut Blasting in Underground Mining. Shock and Vibration, 2019, 2019, 1-13.	0.3	6
134	Quantum Byzantine Agreement with Tripartite Entangled States. International Journal of Theoretical Physics, 2019, 58, 1482-1498.	0.5	6
135	Machine-Learning-Aided Determination of Post-blast Ore Boundary for Controlling Ore Loss and Dilution. Natural Resources Research, 2021, 30, 4063-4078.	2.2	6
136	Continuous-Variable Measurement-Device-Independent Multipartite Quantum Communication Using Coherent States. Journal of the Physical Society of Japan, 2017, 86, 024003.	0.7	5
137	Experimental Study on the Blasting Performance of Water-Soil Composite Stemming in Underground Mines. Advances in Materials Science and Engineering, 2018, 2018, 1-11.	1.0	5
138	An Improved Connection Cloud Model of an Updated Database: A Multicriteria Uncertainty Model for Coal Burst Liability Evaluation. Natural Resources Research, 2022, 31, 1687-1704.	2.2	5
139	Deformation prediction and analysis of underground mining during stacking of dry gangue in open-pit based on response surface methodology. Journal of Central South University, 2018, 25, 406-417.	1.2	4
140	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
141	Indirect Determination Approach of Blast-Induced Ground Vibration Based on a Hybrid SSA-Optimized GP-Based Technique. Advances in Civil Engineering, 2021, 2021, 1-14.	0.4	4
142	The Effects of Macroeconomic Factors on Road Traffic Safety: A Study Based on the ARDL-ECM Model. Sustainability, 2020, 12, 10262.	1.6	3
143	Optimization Charge Scheme for Multi-row Ring Blasting Design Adopting Equilateral Triangle Layout Based on Modified Harries's™ Mathematical Model from a Fragmentation Perspective: A Case Study. Sustainable Civil Infrastructures, 2019, , 103-116.	0.1	3
144	Classification of Seismic-Liquefaction Potential Using Friedman's™ Stochastic Gradient Boosting Based on the Cone Penetration Test Data. Sustainable Civil Infrastructures, 2019, , 67-78.	0.1	1

#	ARTICLE	IF	CITATIONS
145	Improving Continuous-Variable Quantum Key Distribution Using the Heralded Noiseless Linear Amplifier with Source in the Middle. International Journal of Theoretical Physics, 2016, 55, 1156-1166.	0.5	0