

Hoang Nguyen

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

3,348
citations

35
h-index

52
g-index

133
ext. papers

4,756
ext. citations

4.3
avg, IF

6.8
L-index

#	Paper	IF	Citations
123	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	6.3	1
122	Predicting rock displacement in underground mines using improved machine learning-based models. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 188, 110552	4.6	3
121	Optimization of haulage-truck system performance for ore production in open-pit mines using big data and machine learning-based methods. <i>Resources Policy</i> , 2022 , 75, 102522	7.2	1
120	A novel artificial intelligent model for predicting water treatment efficiency of various biochar systems based on artificial neural network and queuing search algorithm. <i>Chemosphere</i> , 2022 , 287, 132251	8.4	6
119	Utilizing a Bagging Model Based on Decision Trees and k-nearest Neighbors for Predicting Slope Stability in Open Pit Mines. <i>Lecture Notes in Civil Engineering</i> , 2022 , 633-642	0.3	
118	Extra Trees Ensemble: A Machine Learning Model for Predicting Blast-Induced Ground Vibration Based on the Bagging and Sibling of Random Forest Algorithm. <i>Lecture Notes in Civil Engineering</i> , 2022 , 643-652	0.3	1
117	Utilizing a Novel Artificial Neural Network-Based Meta-heuristic Algorithm to Predict the Dust Concentration in Deo Nai Open-Pit Coal Mine (Vietnam). <i>Lecture Notes in Civil Engineering</i> , 2021 , 203-223	0.3	
116	Evaluating the Air Flow and Gas Dispersion Behavior in a Deep Open-Pit Mine Based on Monitoring and CFD Analysis: A Case Study at the Coc Sau Open-Pit Coal Mine (Vietnam). <i>Lecture Notes in Civil Engineering</i> , 2021 , 224-244	0.3	
115	A Review of Artificial Intelligence Applications in Mining and Geological Engineering. <i>Lecture Notes in Civil Engineering</i> , 2021 , 109-142	0.3	1
114	Evaluating the Effect of Meteorological Conditions on Blast-Induced Air Over-Pressure in Open Pit Coal Mines. <i>Lecture Notes in Civil Engineering</i> , 2021 , 170-186	0.3	
113	Development of a Blasting Vibration Monitoring System Based on Tri-axial Acceleration Sensor for Wireless Mesh Network Monitoring. <i>Lecture Notes in Civil Engineering</i> , 2021 , 187-202	0.3	
112	Optimized functional linked neural network for predicting diaphragm wall deflection induced by braced excavations in clays. <i>Geoscience Frontiers</i> , 2021 , 101313	6	5
111	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	4.9	3
110	Diagnosis of Problems in Truck Ore Transport Operations in Underground Mines Using Various Machine Learning Models and Data Collected by Internet of Things Systems. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1128	2.4	5
109	Predicting Blast-induced Ground Vibration in Quarries Using Adaptive Fuzzy Inference Neural Network and Moth-Flame Optimization. <i>Natural Resources Research</i> , 2021 , 30, 4719	4.9	3
108	Soft computing-based models for the prediction of masonry compressive strength. <i>Engineering Structures</i> , 2021 , 248, 113276	4.7	9
107	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	6	17

106	Estimation of Ground Vibration Intensity Induced by Mine Blasting using a State-of-the-Art Hybrid Autoencoder Neural Network and Support Vector Regression Model. <i>Natural Resources Research</i> , 2021 , 30, 3853-3864	4.9	5
105	A Novel Hunger Games Search Optimization-Based Artificial Neural Network for Predicting Ground Vibration Intensity Induced by Mine Blasting. <i>Natural Resources Research</i> , 2021 , 30, 3865-3880	4.9	15
104	A Novel Combination of Whale Optimization Algorithm and Support Vector Machine with Different Kernel Functions for Prediction of Blasting-Induced Fly-Rock in Quarry Mines. <i>Natural Resources Research</i> , 2021 , 30, 191-207	4.9	36
103	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	7.2	96
102	Rapid Determination of Gross Calorific Value of Coal Using Artificial Neural Network and Particle Swarm Optimization. <i>Natural Resources Research</i> , 2021 , 30, 621-638	4.9	11
101	Modeling of rock fragmentation by firefly optimization algorithm and boosted generalized additive model. <i>Neural Computing and Applications</i> , 2021 , 33, 3503-3519	4.8	15
100	Estimating Ore Production in Open-pit Mines Using Various Machine Learning Algorithms Based on a Truck-Haulage System and Support of Internet of Things. <i>Natural Resources Research</i> , 2021 , 30, 1141-1173	4.9	3
99	Fine-tuning of neural computing using whale optimization algorithm for predicting compressive strength of concrete. <i>Engineering With Computers</i> , 2021 , 37, 701-712	4.5	20
98	A new technique to predict fly-rock in bench blasting based on an ensemble of support vector regression and GLMNET. <i>Engineering With Computers</i> , 2021 , 37, 421-435	4.5	38
97	Comparison of dragonfly algorithm and Harris hawks optimization evolutionary data mining techniques for the assessment of bearing capacity of footings over two-layer foundation soils. <i>Engineering With Computers</i> , 2021 , 37, 437-447	4.5	31
96	A novel artificial intelligence technique for analyzing slope stability using PSO-CA model. <i>Engineering With Computers</i> , 2021 , 37, 533-544	4.5	20
95	A novel Harris hawks optimization and k-fold cross-validation predicting slope stability. <i>Engineering With Computers</i> , 2021 , 37, 369-379	4.5	56
94	Novel metaheuristic classification approach in developing mathematical model-based solutions predicting failure in shallow footing. <i>Engineering With Computers</i> , 2021 , 37, 223-230	4.5	8
93	Nonlinear evolutionary swarm intelligence of grasshopper optimization algorithm and gray wolf optimization for weight adjustment of neural network. <i>Engineering With Computers</i> , 2021 , 37, 1265-1275	4.5	32
92	Proposing two new metaheuristic algorithms of ALO-MLP and SHO-MLP in predicting bearing capacity of circular footing located on horizontal multilayer soil. <i>Engineering With Computers</i> , 2021 , 37, 1537-1547	4.5	11
91	Predicting Ground Vibrations Due to Mine Blasting Using a Novel Artificial Neural Network-Based Cuckoo Search Optimization. <i>Natural Resources Research</i> , 2021 , 30, 2663-2685	4.9	11
90	Estimating Air Over-pressure Resulting from Blasting in Quarries Based on a Novel Ensemble Model (GLMNETsMLPNN). <i>Natural Resources Research</i> , 2021 , 30, 2629-2646	4.9	4
89	Prediction of gas yield generated by energy recovery from municipal solid waste using deep neural network and moth-flame optimization algorithm. <i>Journal of Cleaner Production</i> , 2021 , 311, 127672	10.3	7

88	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	8.4	13
87	Prediction of the sorption efficiency of heavy metal onto biochar using a robust combination of fuzzy C-means clustering and back-propagation neural network. <i>Journal of Environmental Management</i> , 2021 , 293, 112808	7.9	11
86	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 ,	5.3	12
85	Application of remote sensing and machine learning algorithms for forest fire mapping in a Mediterranean area. <i>Ecological Indicators</i> , 2021 , 129, 107869	5.8	28
84	Forecasting monthly copper price: A comparative study of various machine learning-based methods. <i>Resources Policy</i> , 2021 , 73, 102189	7.2	7
83	Proposing two novel hybrid intelligence models for forecasting copper price based on extreme learning machine and meta-heuristic algorithms. <i>Resources Policy</i> , 2021 , 73, 102195	7.2	9
82	Performance evaluation of nanotubular halloysites from weathered pegmatites in removing heavy metals from water through novel artificial intelligence-based models and human-based optimization algorithm. <i>Chemosphere</i> , 2021 , 282, 131012	8.4	8
81	Exploring the relation between production factors, ore grades, and life of mine for forecasting mining capital cost through a novel cascade forward neural network-based salp swarm optimization model. <i>Resources Policy</i> , 2021 , 74, 102300	7.2	2
80	Flood Susceptibility Modeling in a Subtropical Humid Low-Relief Alluvial Plain Environment: Application of Novel Ensemble Machine Learning Approach. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	1
79	Monitoring and Assessment of Water Level Fluctuations of the Lake Urmia and Its Environmental Consequences Using Multitemporal Landsat 7 ETM Images. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	17
78	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	4.9	47
77	A novel artificial intelligence technique to predict compressive strength of recycled aggregate concrete using ICA-XGBoost model. <i>Engineering With Computers</i> , 2020 , 37, 3329	4.5	61
76	Improving prediction of water quality indices using novel hybrid machine-learning algorithms. <i>Science of the Total Environment</i> , 2020 , 721, 137612	10.2	69
75	Different sampling strategies for predicting landslide susceptibilities are deemed less consequential with deep learning. <i>Science of the Total Environment</i> , 2020 , 720, 137320	10.2	75
74	Enhancing nitrate and strontium concentration prediction in groundwater by using new data mining algorithm. <i>Science of the Total Environment</i> , 2020 , 715, 136836	10.2	34
73	Flood Detection and Susceptibility Mapping Using Sentinel-1 Remote Sensing Data and a Machine Learning Approach: Hybrid Intelligence of Bagging Ensemble Based on K-Nearest Neighbor Classifier. <i>Remote Sensing</i> , 2020 , 12, 266	5	96
72	Soft computing models for predicting blast-induced air over-pressure: A novel artificial intelligence approach. <i>Applied Soft Computing Journal</i> , 2020 , 92, 106292	7.5	22
71	Mapping of Groundwater Spring Potential in Karst Aquifer System Using Novel Ensemble Bivariate and Multivariate Models. <i>Water (Switzerland)</i> , 2020 , 12, 985	3	30

70	A Comparative Study of Different Machine Learning Algorithms in Predicting the Content of Ilmenite in Titanium Placer. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 635	2.6	10
69	Application of the k - nearest neighbors algorithm for predicting blast - induced ground vibration in open - pit coal mines: a case study. <i>Journal of Mining and Earth Sciences</i> , 2020 , 61, 22-29	2.4	6
68	A novel soft computing model for predicting blast - induced ground vibration in open - pit mines using gene expression programming. <i>Journal of Mining and Earth Sciences</i> , 2020 , 61, 107-116	2.4	6
67	A comparative study of empirical and ensemble machine learning algorithms in predicting air over-pressure in open-pit coal mine. <i>Acta Geophysica</i> , 2020 , 68, 325-336	2.2	16
66	Developing a novel artificial intelligence model to estimate the capital cost of mining projects using deep neural network-based ant colony optimization algorithm. <i>Resources Policy</i> , 2020 , 66, 101604	7.2	33
65	Prediction of Blast-Induced Ground Vibration in Open-Pit Mines Using a New Technique Based on Imperialist Competitive Algorithm and M5Rules. <i>Natural Resources Research</i> , 2020 , 29, 791-806	4.9	28
64	Prediction of Blast-Induced Ground Vibration Intensity in Open-Pit Mines Using Unmanned Aerial Vehicle and a Novel Intelligence System. <i>Natural Resources Research</i> , 2020 , 29, 771-790	4.9	18
63	Estimation of Blast-Induced Air Overpressure in Quarry Mines Using Cubist-Based Genetic Algorithm. <i>Natural Resources Research</i> , 2020 , 29, 593-607	4.9	12
62	Prediction of Rock Size Distribution in Mine Bench Blasting Using a Novel Ant Colony Optimization-Based Boosted Regression Tree Technique. <i>Natural Resources Research</i> , 2020 , 29, 867-886	4.9	16
61	Landslide Detection and Susceptibility Modeling on Cameron Highlands (Malaysia): A Comparison between Random Forest, Logistic Regression and Logistic Model Tree Algorithms. <i>Forests</i> , 2020 , 11, 830	2.8	29
60	Evaluating and Predicting the Stability of Roadways in Tunnelling and Underground Space Using Artificial Neural Network-Based Particle Swarm Optimization. <i>Tunnelling and Underground Space Technology</i> , 2020 , 103, 103517	5.7	27
59	Landslide Susceptibility Mapping Using Machine Learning Algorithms and Remote Sensing Data in a Tropical Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	46
58	Daily Water Level Prediction of Zrebar Lake (Iran): A Comparison between M5P, Random Forest, Random Tree and Reduced Error Pruning Trees Algorithms. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 479	2.9	10
57	Soft computing method for predicting pressure drop reduction in crude oil pipelines based on machine learning methods. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	2
56	A refreshing view of soft computing models for predicting the deflection of reinforced concrete beams. <i>Applied Soft Computing Journal</i> , 2020 , 97, 106831	7.5	9
55	Comparison of Support Vector Machine, Bayesian Logistic Regression, and Alternating Decision Tree Algorithms for Shallow Landslide Susceptibility Mapping along a Mountainous Road in the West of Iran. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5047	2.6	25
54	A comparative study of artificial neural networks in predicting blast-induced air-blast overpressure at Deo Nai open-pit coal mine, Vietnam. <i>Neural Computing and Applications</i> , 2020 , 32, 3939-3955	4.8	80
53	Prediction of Blast-Induced Ground Vibration in an Open-Pit Mine by a Novel Hybrid Model Based on Clustering and Artificial Neural Network. <i>Natural Resources Research</i> , 2020 , 29, 691-709	4.9	110

52	Optimizing an ANN model with genetic algorithm (GA) predicting load-settlement behaviours of eco-friendly raft-pile foundation (ERP) system. <i>Engineering With Computers</i> , 2020 , 36, 421-433	4.5	35
51	Prediction of Blast-induced Air Over-pressure in Open-Pit Mine: Assessment of Different Artificial Intelligence Techniques. <i>Natural Resources Research</i> , 2020 , 29, 571-591	4.9	76
50	A Novel Artificial Intelligence Approach to Predict Blast-Induced Ground Vibration in Open-Pit Mines Based on the Firefly Algorithm and Artificial Neural Network. <i>Natural Resources Research</i> , 2020 , 29, 723-737	4.9	62
49	Feasibility of a novel predictive technique based on artificial neural network optimized with particle swarm optimization estimating pullout bearing capacity of helical piles. <i>Engineering With Computers</i> , 2020 , 36, 1315-1324	4.5	24
48	Optimizing ANN models with PSO for predicting short building seismic response. <i>Engineering With Computers</i> , 2020 , 36, 823-837	4.5	63
47	Optimizing Levenberg-Marquardt backpropagation technique in predicting factor of safety of slopes after two-dimensional OptumG2 analysis. <i>Engineering With Computers</i> , 2020 , 36, 941-952	4.5	24
46	Proposing a novel predictive technique using M5Rules-PSO model estimating cooling load in energy-efficient building system. <i>Engineering With Computers</i> , 2020 , 36, 857-866	4.5	25
45	Neuro-genetic, neuro-imperialism and genetic programming models in predicting ultimate bearing capacity of pile. <i>Engineering With Computers</i> , 2020 , 36, 1101-1115	4.5	31
44	Novel Soft Computing Model for Predicting Blast-Induced Ground Vibration in Open-Pit Mines Based on Particle Swarm Optimization and XGBoost. <i>Natural Resources Research</i> , 2020 , 29, 711-721	4.9	74
43	Prediction of ultimate bearing capacity through various novel evolutionary and neural network models. <i>Engineering With Computers</i> , 2020 , 36, 671-687	4.5	42
42	A novel approach in adsorption of heavy metal ions from aqueous solution using synthesized MCM-41 from coal bottom ash. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 100, 1226-1244	1.8	8
41	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	4.9	38
40	Development of Hybrid Artificial Intelligence Approaches and a Support Vector Machine Algorithm for Predicting the Marshall Parameters of Stone Matrix Asphalt. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3172	2.6	33
39	Prediction of Pullout Behavior of Belled Piles through Various Machine Learning Modelling Techniques. <i>Sensors</i> , 2019 , 19,	3.8	11
38	Forecasting mining capital cost for open-pit mining projects based on artificial neural network approach. <i>Resources Policy</i> , 2019 , 74, 101474	7.2	23
37	Comprehensive preference learning and feature validity for designing energy-efficient residential buildings using machine learning paradigms. <i>Applied Soft Computing Journal</i> , 2019 , 84, 105748	7.5	40
36	A Novel Hybrid Model for Predicting Blast-Induced Ground Vibration Based on k-Nearest Neighbors and Particle Swarm Optimization. <i>Scientific Reports</i> , 2019 , 9, 13971	4.9	27
35	A new soft computing model for estimating and controlling blast-produced ground vibration based on Hierarchical K-means clustering and Cubist algorithms. <i>Applied Soft Computing Journal</i> , 2019 , 77, 376-386	7.5	82

34	Agricultural wastes preparation, management, and applications in civil engineering: a review. <i>Journal of Material Cycles and Waste Management</i> , 2019 , 21, 1039-1051	3.4	30
33	A comparison of advanced computational models and experimental techniques in predicting blast-induced ground vibration in open-pit coal mine. <i>Acta Geophysica</i> , 2019 , 67, 1025-1037	2.2	37
32	Composition and Morphology Characteristics of Magnetic Fractions of Coal Fly Ash Wastes Processed in High-Temperature Exposure in Thermal Power Plants. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1964	2.6	13
31	Developing an XGBoost model to predict blast-induced peak particle velocity in an open-pit mine: a case study. <i>Acta Geophysica</i> , 2019 , 67, 477-490	2.2	69
30	Support vector regression approach with different kernel functions for predicting blast-induced ground vibration: a case study in an open-pit coal mine of Vietnam. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	35
29	Determination of Young Elasticity Modulus in Bored Piles Through the Global Strain Extensometer Sensors and Real-Time Monitoring Data. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3060	2.6	4
28	Novel hybrids of adaptive neuro-fuzzy inference system (ANFIS) with several metaheuristic algorithms for spatial susceptibility assessment of seismic-induced landslide. <i>Geomatics, Natural Hazards and Risk</i> , 2019 , 10, 1879-1911	3.6	50
27	A Novel Swarm Intelligence-Harris Hawks Optimization for Spatial Assessment of Landslide Susceptibility. <i>Sensors</i> , 2019 , 19,	3.8	76
26	A particle-based optimization of artificial neural network for earthquake-induced landslide assessment in Ludian county, China. <i>Geomatics, Natural Hazards and Risk</i> , 2019 , 10, 1750-1771	3.6	48
25	Estimating PM10 Concentration from Drilling Operations in Open-Pit Mines Using an Assembly of SVR and PSO. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2806	2.6	27
24	Predicting blast-induced peak particle velocity using BGAMs, ANN and SVM: a case study at the Nui Beo open-pit coal mine in Vietnam. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	26
23	Applications of rice husk ash as green and sustainable biomass. <i>Journal of Cleaner Production</i> , 2019 , 237, 117851	10.3	70
22	A Comparative Study of PSO-ANN, GA-ANN, ICA-ANN, and ABC-ANN in Estimating the Heating Load of Buildings Energy Efficiency for Smart City Planning. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2630	2.6	119
21	Potential of hybrid evolutionary approaches for assessment of geo-hazard landslide susceptibility mapping. <i>Geomatics, Natural Hazards and Risk</i> , 2019 , 10, 1667-1693	3.6	59
20	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	2.6	49
19	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Vibration Sensors and Support Vector Regression-Based Optimization Algorithms. <i>Sensors</i> , 2019 , 20,	3.8	35
18	Application of a Hybrid Artificial Neural Network-Particle Swarm Optimization (ANN-PSO) Model in Behavior Prediction of Channel Shear Connectors Embedded in Normal and High-Strength Concrete. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5534	2.6	91
17	A Novel Artificial Intelligence Technique to Estimate the Gross Calorific Value of Coal Based on Meta-Heuristic and Support Vector Regression Algorithms. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4868	2.6	15

16	Adaptive Network Based Fuzzy Inference System with Meta-Heuristic Optimizations for International Roughness Index Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4715	2.6	40
15	Toward a State-of-the-Art of Fly-Rock Prediction Technology in Open-Pit Mines Using EANNs Model. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4554	2.6	17
14	Two novel neural-evolutionary predictive techniques of dragonfly algorithm (DA) and biogeography-based optimization (BBO) for landslide susceptibility analysis. <i>Geomatics, Natural Hazards and Risk</i> , 2019 , 10, 2429-2453	3.6	11
13	Evaluating and predicting blast-induced ground vibration in open-cast mine using ANN: a case study in Vietnam. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	47
12	Predicting Blast-Induced Air Overpressure: A Robust Artificial Intelligence System Based on Artificial Neural Networks and Random Forest. <i>Natural Resources Research</i> , 2019 , 28, 893-907	4.9	109
11	Conductivity of composites with multiple polygonal aggregates, theoretical estimates and numerical solutions from polarization series. <i>International Journal of Engineering Science</i> , 2018 , 123, 109-116	5.7	3
10	Flash-flood propagation susceptibility estimation using weights of evidence and their novel ensembles with multicriteria decision making and machine learning. <i>Geocarto International</i> , 1-32	2.7	4
9	Toward state-of-the-art techniques in predicting and controlling slope stability in open-pit mines based on limit equilibrium analysis, radial basis function neural network, and brainstorm optimization. <i>Acta Geotechnica</i> , 1	4.9	0
8	Estimating heavy metals absorption efficiency in an aqueous solution using nanotube-type halloysite from weathered pegmatites and a novel Harris hawks optimization-based multiple layers perceptron neural network. <i>Engineering With Computers</i> , 1	4.5	3
7	Flash-flood potential index estimation using fuzzy logic combined with deep learning neural network, naïve Bayes, XGBoost and classification and regression tree. <i>Geocarto International</i> , 1-28	2.7	5
6	Prediction of ground vibration intensity in mine blasting using the novel hybrid MARS-BSO-MLP model. <i>Engineering With Computers</i> , 1	4.5	1
5	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Different Nature-Inspired Optimization Algorithms and Deep Neural Network. <i>Natural Resources Research</i> , 1	4.9	2
4	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> , 1	4.9	1
3	Detection of areas prone to flood-induced landslides risk using certainty factor and its hybridization with FAHP, XGBoost and deep learning neural network. <i>Geocarto International</i> , 1-36	2.7	4
2	A generalized artificial intelligence model for estimating the friction angle of clays in evaluating slope stability using a deep neural network and Harris Hawks optimization algorithm. <i>Engineering With Computers</i> , 1	4.5	15
1	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> , 1	4.5	12