

# Mohammad Ataei

## List of Publications by Year in descending order

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120  
papers

3,000  
citations

159585

30  
h-index

206112

48  
g-index

120  
all docs

120  
docs citations

120  
times ranked

2270  
citing authors

#	ARTICLE	IF	CITATIONS
1	The application of fuzzy analytic hierarchy process (FAHP) approach to selection of optimum underground mining method for Jajarm Bauxite Mine, Iran. <i>Expert Systems With Applications</i> , 2009, 36, 8218-8226.	7.6	176
2	Development of a fuzzy model for predicting ground vibration caused by rock blasting in surface mining. <i>JVC/Journal of Vibration and Control</i> , 2013, 19, 755-770.	2.6	123
3	Development of an empirical model for predicting the effects of controllable blasting parameters on flyrock distance in surface mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 52, 163-170.	5.8	105
4	A review of studies on sustainable development in mining life cycle. <i>Journal of Cleaner Production</i> , 2019, 229, 213-231.	9.3	101
5	Application of artificial intelligence techniques for predicting the flyrock distance caused by blasting operation. <i>Arabian Journal of Geosciences</i> , 2014, 7, 193-202.	1.3	97
6	Assessment of rock slope stability using the Fuzzy Slope Mass Rating (FSMR) system. <i>Applied Soft Computing Journal</i> , 2011, 11, 4465-4473.	7.2	91
7	Predicting penetration rate of hard rock tunnel boring machine using fuzzy logic. <i>Bulletin of Engineering Geology and the Environment</i> , 2014, 73, 23-35.	3.5	85
8	Assessment of roof fall risk during retreat mining in room and pillar coal mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 54, 80-89.	5.8	83
9	Ranking of geological risks in mechanized tunneling by using Fuzzy Analytical Hierarchy Process (FAHP). <i>Tunnelling and Underground Space Technology</i> , 2015, 50, 358-364.	6.2	82
10	Comparison of intelligence science techniques and empirical methods for prediction of blasting vibrations. <i>Tunnelling and Underground Space Technology</i> , 2012, 28, 238-244.	6.2	74
11	An intelligent approach to predict pillar sizing in designing room and pillar coal mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 65, 86-95.	5.8	63
12	Fuzzy fault tree analysis for coal burst occurrence probability in underground coal mining. <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 165-174.	6.2	59
13	Using TOPSIS approaches for predictive porphyry Cu potential mapping: A case study in Ahar-Arasbaran area (NW, Iran). <i>Computers and Geosciences</i> , 2012, 49, 62-71.	4.2	58
14	Earth dam site selection using the analytic hierarchy process (AHP): a case study in the west of Iran. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3417-3426.	1.3	57
15	A new approach to mining method selection based on modifying the Nicholas technique. <i>Applied Soft Computing Journal</i> , 2010, 10, 1040-1061.	7.2	56
16	Ranking the sawability of ornamental stone using Fuzzy Delphi and multi-criteria decision-making techniques. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 58, 118-126.	5.8	56
17	Reliability analysis of drum shearer machine at mechanized longwall mines. <i>Journal of Quality in Maintenance Engineering</i> , 2012, 18, 98-119.	1.7	55
18	Drilling rate prediction of an open pit mine using the rock mass drillability index. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 73, 130-138.	5.8	55

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19	Performance prediction of circular saw machine using imperialist competitive algorithm and fuzzy clustering technique. <i>Neural Computing and Applications</i> , 2018, 29, 283-292.	5.6	50
20	Monte Carlo Analytic Hierarchy Process (MAHP) approach to selection of optimum mining method. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 573-578.	10.3	49
21	Stochastic Modeling Approach for the Evaluation of Backbreak due to Blasting Operations in Open Pit Mines. <i>Rock Mechanics and Rock Engineering</i> , 2014, 47, 771-783.	5.4	48
22	Overbreak prediction in underground excavations using hybrid ANFIS-PSO model. <i>Tunnelling and Underground Space Technology</i> , 2018, 80, 1-9.	6.2	48
23	Fault tree analysis of failure cause of crushing plant and mixing bed hall at Khoy cement factory in Iran. <i>Case Studies in Engineering Failure Analysis</i> , 2014, 2, 33-38.	1.2	43
24	Fuzzy analytical hierarchy process approach for ranking the sawability of carbonate rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 50, 83-93.	5.8	41
25	Development of overbreak prediction models in drill and blast tunneling using soft computing methods. <i>Engineering With Computers</i> , 2018, 34, 45-58.	6.1	38
26	Application of multifractal modeling technique in systematic geochemical stream sediment survey to identify copper anomalies: A case study from Ahar, Azarbaijan, Northwest Iran. <i>Chemie Der Erde</i> , 2011, 71, 397-402.	2.0	36
27	Using equivalent grade factors to find the optimum cut-off grades of multiple metal deposits. <i>Minerals Engineering</i> , 2003, 16, 771-776.	4.3	35
28	Correlation of production rate of ornamental stone with rock brittleness indexes. <i>Arabian Journal of Geosciences</i> , 2013, 6, 115-121.	1.3	33
29	Comparison of Some Rock Hardness Scales Applied in Drillability Studies. <i>Arabian Journal for Science and Engineering</i> , 2012, 37, 1451-1458.	1.1	32
30	Application of fuzzy logic for predicting roof fall rate in coal mines. <i>Neural Computing and Applications</i> , 2013, 22, 311-321.	5.6	32
31	The Resilience of Critical Infrastructure Systems: A Systematic Literature Review. <i>Energies</i> , 2021, 14, 1571.	3.1	32
32	Optimizing post-mining land use for pit area in open-pit mining using fuzzy decision making method. <i>International Journal of Environmental Science and Technology</i> , 2012, 9, 613-628.	3.5	31
33	Reliability-based maintenance scheduling of hydraulic system of rotary drilling machines. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 771-775.	10.3	31
34	Resilience estimation of critical infrastructure systems: Application of expert judgment. <i>Reliability Engineering and System Safety</i> , 2021, 215, 107849.	8.9	31
35	Sawability ranking of carbonate rock using fuzzy analytical hierarchy process and TOPSIS approaches. <i>Scientia Iranica</i> , 2011, 18, 1106-1115.	0.4	30
36	Predicting the production rate of diamond wire saw using statistical analysis. <i>Arabian Journal of Geosciences</i> , 2012, 5, 1289-1295.	1.3	30

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37	Combining AHP with GIS for Predictive Cu Porphyry Potential Mapping: A Case Study in Ahar Area (NW,) Tj ETQq1 1 0.784314 rgBT /Ove	4.7	29
38	A new framework for evaluation of rock fragmentation in open pit mines. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 325-336.	8.1	29
39	Using fuzzy TOPSIS method for mineral processing plant site selection. Arabian Journal of Geosciences, 2012, 5, 1011-1019.	1.3	25
40	Application of analytical hierarchy process to selection of primary crusher. International Journal of Mining Science and Technology, 2014, 24, 519-523.	10.3	24
41	Evaluation of gang sawsâ€™ performance in the carbonate rock cutting process using feasibility of intelligent approaches. Engineering Science and Technology, an International Journal, 2019, 22, 990-1000.	3.2	23
42	Prediction of global stability in room and pillar coal mines. Natural Hazards, 2014, 72, 405-422.	3.4	22
43	Environmental impact assessment (EIA) by using the Fuzzy Delphi Folchi (FDF) method (case study:) Tj ETQq1 1 0.784314 rgBT /Over	5.0	22
44	Prediction of the Production Rate of Chain Saw Machine using the Multilayer Perceptron (MLP) Neural Network. Civil Engineering Journal (Iran), 2018, 4, 1575.	3.9	22
45	Determining proper strategies for Iranâ€™s dimensional stone mines: a SWOTâ€™AHP analysis. Arabian Journal of Geosciences, 2013, 6, 129-139.	1.3	21
46	Predicting the production rate of diamond wire saws using multiple nonlinear regression analysis. Geosystem Engineering, 2013, 16, 275-285.	1.4	21
47	A stochastic penetration rate model for rotary drilling in surface mines. International Journal of Rock Mechanics and Minings Sciences, 2014, 68, 55-65.	5.8	21
48	Mineral processing plant location using the analytic hierarchy processâ€™a case study: the Sangan iron ore mine (phase 1). Mining Science and Technology, 2010, 20, 691-695.	0.3	19
49	Determination of the optimum cut-off grades and production scheduling in multi-product open pit mines using imperialist competitive algorithm (ICA). Resources Policy, 2017, 51, 39-48.	9.6	19
50	Prediction of blast-induced vibration by adaptive neuro-fuzzy inference system in Karoun 3 power plant and dam. JVC/Journal of Vibration and Control, 2013, 19, 1906-1914.	2.6	18
51	Determination and Assessment of Parameters Influencing Rock Mass Cavability in Block Caving Mines Using the Probabilistic Rock Engineering System. Rock Mechanics and Rock Engineering, 2015, 48, 1207-1220.	5.4	18
52	Study of the effect of the cooling and lubricant fluid on the cutting performance of dimension stone through artificial intelligence models. Engineering Science and Technology, an International Journal, 2020, 23, 71-81.	3.2	18
53	Comprehensive analysis of slope stability and determination of stable slopes in the Chador-Malu iron ore mine using numerical and limit equilibrium methods. Mining Science and Technology, 2008, 18, 488-493.	0.8	17
54	Development of a New Index to Assess the Rock Mass Drillability. Geotechnical and Geological Engineering, 2013, 31, 1477-1495.	1.7	17

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55	Determination of coal mine mechanization using fuzzy logic. <i>Mining Science and Technology</i> , 2009, 19, 149-154.	0.3	16
56	Prediction of the Rock Mass Diggability Index by Using Fuzzy Clustering-Based, ANN and Multiple Regression Methods. <i>Rock Mechanics and Rock Engineering</i> , 2014, 47, 717-732.	5.4	16
57	Presenting an engineering classification system for coal spontaneous combustion potential. <i>International Journal of Coal Science and Technology</i> , 2017, 4, 110-128.	6.0	16
58	Prediction of blast induced vibrations in the structures of Karoun III power plant and dam. <i>JVC/Journal of Vibration and Control</i> , 2011, 17, 541-548.	2.6	15
59	Use of digital image processing techniques for evaluating wear of cemented carbide bits in rotary drilling. <i>Automation in Construction</i> , 2014, 44, 140-151.	9.8	15
60	Fe <sub>2</sub> O <sub>3</sub> nanoparticles improve the physical properties of heavy-weight wellbore cements: A laboratory study. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 695-701.	4.4	15
61	A fuzzy rock engineering system to assess rock mass cavability in block caving mines. <i>Neural Computing and Applications</i> , 2016, 27, 2083-2094.	5.6	15
62	STABILITY ANALYSIS OF TUNNEL SUPPORT SYSTEMS USING NUMERICAL AND INTELLIGENT SIMULATIONS (CASE STUDY: KOUHIN TUNNEL OF QAZVIN-RASHT RAILWAY). <i>Rudarsko Geolosko Naftni Zbornik</i> , 2019, 34, 1-11.	0.5	14
63	Methods for Calculation of Optimal Cutoff Grades in Complex Ore Deposits. <i>Journal of Mining Science</i> , 2003, 39, 499-507.	0.6	13
64	Simultaneous effects of joint spacing and joint orientation on the penetration rate of a single disc cutter. <i>Mining Science and Technology</i> , 2011, 21, 507-512.	0.3	13
65	Reliability analysis of the cable system of drum shearer using the power law process model. <i>International Journal of Mining, Reclamation and Environment</i> , 2012, 26, 309-323.	2.8	13
66	Application of a fuzzy analytical hierarchy process to the prediction of vibration during rock sawing. <i>Mining Science and Technology</i> , 2011, 21, 611-619.	0.3	12
67	INVESTIGATING THE ROLE OF COOLANT AND LUBRICANT FLUIDS ON THE PERFORMANCE OF CUTTING DISKS (CASE STUDY: HARD ROCKS). <i>Rudarsko Geolosko Naftni Zbornik</i> , 2019, 34, 13-25.	0.5	12
68	Spare part requirement prediction under different maintenance strategies. <i>International Journal of Mining, Reclamation and Environment</i> , 2019, 33, 169-182.	2.8	12
69	Investigation of wear resistance of drill bits with WC, Diamond-DLC, and TiAlSi coatings with respect to mechanical properties of rock. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105113.	3.8	12
70	Mineral potential mapping with fuzzy models in the Kermanâ€“Kashmar Tectonic Zone, Central Iran. <i>Applied Geomatics</i> , 2012, 4, 173-186.	2.5	11
71	Prediction of rotary drilling penetration rate in iron ore oxides using rock engineering system. <i>International Journal of Mining Science and Technology</i> , 2018, 28, 407-413.	10.3	11
72	Effects of microfabric on drillability of rocks. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 1443-1449.	3.5	11

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73	ODM: a new approach for open pit mine blasting evaluation. JVC/Journal of Vibration and Control, 2013, 19, 1738-1752.	2.6	10
74	A Strategic Analysis of Iran's Dimensional Stone Mines Using SWOT Method. Arabian Journal for Science and Engineering, 2013, 38, 149-154.	1.1	10
75	The Reliability and Maintainability Analysis of Pneumatic System of Rotary Drilling Machines. Journal of the Institution of Engineers (India): Series D, 2013, 94, 105-111.	1.0	9
76	Reliability-based maintenance scheduling of haulage system of drum shearer. International Journal of Mining and Mineral Engineering, 2011, 3, 26.	0.3	8
77	Resilience analysis: A formulation to model risk factors on complex system resilience. International Journal of Systems Assurance Engineering and Management, 2021, 12, 871-883.	2.4	8
78	Factors Affecting the Selection of Site for Arrangement of Pit Rock-Dumps. Journal of Mining Science, 2003, 39, 148-153.	0.6	7
79	A comparative study between sequential Gaussian simulation and kriging method grade modeling in open-pit mining. Arabian Journal of Geosciences, 2013, 6, 123-128.	1.3	7
80	PREDICTING THE RELATIONSHIP BETWEEN SYSTEM VIBRATION WITH ROCK BRITTLINESS INDEXES IN ROCK SAWING PROCESS. Archives of Mining Sciences, 2014, 59, 139-153.	0.6	7
81	Operating Environment-Based Availability Importance Measures for Mining Equipment (Case Study: Tj ETQq1 1 0.784314 rgBT /Over 0.9	0.9	7
82	THE SIMULTANEOUS EFFECT OF MOISTURE AND PYRITE ON COAL SPONTANEOUS COMBUSTION USING CPT AND R70 TEST METHODS. Rudarsko Geolosko Naftni Zbornik, 2019, 34, 1-12.	0.5	7
83	Prediction of remaining useful life (RUL) of Komatsu excavator under reliability analysis in the Weibull-frailty model. PLoS ONE, 2020, 15, e0236128.	2.5	7
84	Spare-part management in a heterogeneous environment. PLoS ONE, 2021, 16, e0247650.	2.5	7
85	Evaluation of blast induced ground vibrations from underground excavation at Karoun 3 area. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2010, 119, 7-13.	0.8	6
86	Evaluating the Power Consumption in Carbonate Rock Sawing Process by Using FDAHP and TOPSIS Techniques. , 2011, , .		6
87	Maintenance Plan for a Fleet of Rotary Drill Rigs/Harmonogram Utrzymania I Konserwacji Floty Obrotowych UrzÄ...dzeÅ,, Wierniczych. Archives of Mining Sciences, 2014, 59, 441-453.	0.6	6
88	Risk based maintenance strategy: a quantitative approach based on time-to-failure model. International Journal of Systems Assurance Engineering and Management, 2017, 8, 602-611.	2.4	6
89	â†â%²æœ°âœ"â†â%²â-çŸ³æ—¶çš,,æ€šèf1/2è"„ä¼°. Journal of Central South University, 2019, 26, 1934-1945.3.0		6
90	A New Roof Strata Cavability Index (RSCi) for Longwall Mining Incorporating New Rating System. Geotechnical and Geological Engineering, 2019, 37, 3619-3636.	1.7	6

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91	Application of fuzzy RES and fuzzy DEMATEL in the rock behavioral systems under uncertainty. Geosystem Engineering, 2019, 22, 18-29.	1.4	6
92	Modeling and Simulation Approaches for Reliability Analysis of Drilling Machines. Journal of the Institution of Engineers (India): Series C, 2020, 101, 125-133.	1.2	6
93	Selection of Alumina-Cement Plant Location with Application of Multicriteria Estimation Method. Journal of Mining Science, 2005, 41, 185-194.	0.6	5
94	Application of fuzzy logic for determining of coal mine mechanization. Science in China Series A: Mathematics, 2012, 18, 225-231.	0.2	5
95	The application of lithogeochemical and alteration index for copper mineralization in the Sonajil area, NW Iran. Arabian Journal of Geosciences, 2013, 6, 1447-1456.	1.3	5
96	Mineral potential mapping for rare earth elements mineralization with AHP method in the Kerman-Kashmar Tectonic Zone, Central Iran. Journal of the Geological Society of India, 2014, 83, 457-465.	1.1	5
97	Improvement of rock engineering system coding using fuzzy numbers. Journal of Intelligent and Fuzzy Systems, 2016, 30, 705-715.	1.4	5
98	Assessment of the Importance of Parameters Affecting Roof Strata Cavability in Mechanized Longwall Mining. Geotechnical and Geological Engineering, 2018, 36, 2667-2682.	1.7	5
99	Mathematical relationship between ultimate pit limits generated by discounted and undiscounted block value maximization in open pit mining. Journal of Sustainable Mining, 2019, 18, 94-99.	0.2	5
100	Evaluation effect of macerals petrographic and pyrite contents on spontaneous coal combustion in Tabas Parvadeh and Eastern Alborz coal mines in Iran. International Journal of Coal Preparation and Utilization, 2022, 42, 12-29.	2.1	5
101	A probabilistic model to improve reconciliation of estimated and actual grade in open-pit mining. Arabian Journal of Geosciences, 2012, 5, 1279-1288.	1.3	4
102	Reliability Analysis and Maintenance Scheduling of the Electrical System of Rotary Drilling Machines. Lecture Notes in Mechanical Engineering, 2016, , 623-632.	0.4	4
103	Improving the Method of Roof Fall Susceptibility Assessment based on Fuzzy Approach. Archives of Mining Sciences, 2017, 62, 13-32.	0.6	4
104	A Comprehensive Study of Effect of Maceral Content on Tendency of Spontaneous Coal Combustion Occurrence. Journal of the Institution of Engineers (India): Series D, 2019, 100, 1-13.	1.0	4
105	A FUZZY DEMATEL BASED SUSTAINABLE DEVELOPMENT INDEX (FSDSI) IN OPEN PIT MINING – A CASE STUDY. Rudarsko Geolosko Naftni Zbornik, 2020, 35, 1-11.	0.5	4
106	Study of the effect of drill bits hardness, drilling machine operating parameters and rock mechanical parameters on noise level in hard rock drilling process. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108447.	5.0	4
107	Normalised availability importance measures for complex systems. International Journal of Mining, Reclamation and Environment, 2018, 32, 109-122.	2.8	3
108	Examination of the role of moisture content on the spontaneous combustion of coal (SCC). Rudarsko Geolosko Naftni Zbornik, 2019, 34, 61-71.	0.5	3

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109	Energy consumption prediction of gang saws from rock properties in carbonate rocks cutting process. International Journal of Mining and Mineral Engineering, 2018, 9, 216.	0.3	2
110	A new equation for the prediction of coal self-heating based on maceral content. International Journal of Coal Preparation and Utilization, 2022, 42, 878-898.	2.1	2
111	A Probabilistic Model to Determine Main Caving Span by Evaluating Cavability of Immediate Roof Strata in Longwall Mining. Geotechnical and Geological Engineering, 2021, 39, 2221-2237.	1.7	2
112	A Hierarchical Preference Voting System for Mining Method Selection Problem / Wykorzystanie Systemu Głosowania Zakładaj...cy Hierarchii™ Preferencji Przy Wyborze Odpowiedniej Metody Wybierania. Archives of Mining Sciences, 2012, 57, 1057-1070.	0.6	2
113	Environmental concerns of blasting projects in limestone mines. International Journal of Mining and Mineral Engineering, 2010, 2, 349.	0.3	1
114	A fuzzy logic based classification for assessing of rock mass drillability. International Journal of Mining and Mineral Engineering, 2011, 3, 278.	0.3	1
115	THE STUDY OF ENERGY CONSUMPTION IN THE DIMENSION STONE CUTTING PROCESS. Rudarsko Geološko Naftni Zbornik, 2018, 33, 65-71.	0.5	1
116	EVALUATION OF THE SPONTANEOUS COMBUSTION OF COAL (SCC) BY USING THE R70 TEST METHOD BASED ON THE CORRELATION AMONG INTRINSIC COAL PROPERTIES (CASE STUDY: TABAS PARVADEH COAL MINES.) Tj ETQ 0 0 0 rBT /Overlo	0.0	0
117	An Experimental Investigation on the Role of Coolant and Lubricant Fluids in the Maximum Electrical Current Based upon the Rock Physical and Mechanical Properties. Geotechnical and Geological Engineering, 2020, 38, 2317-2326.	1.7	1
118	Resilience analysis of loading system in Jajarm bauxite mine. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	1
119	Numerical modeling of coal gas drainage in a three-dimensional framework. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	1
120	Comparison and analysis of burden design methods in blasting: a case study on Sungun copper mine in Iran. International Journal of Mining and Mineral Engineering, 2010, 2, 123.	0.3	0