

Qiusong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,857
citations

159358

30
h-index

174990

52
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58
all docs

58
docs citations

58
times ranked

1202
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling phosphogypsum and construction demolition waste for cemented paste backfill and its environmental impact. <i>Journal of Cleaner Production</i> , 2018, 186, 418-429.	4.6	282
2	Neural network and particle swarm optimization for predicting the unconfined compressive strength of cemented paste backfill. <i>Construction and Building Materials</i> , 2018, 159, 473-478.	3.2	205
3	A strength prediction model using artificial intelligence for recycling waste tailings as cemented paste backfill. <i>Journal of Cleaner Production</i> , 2018, 183, 566-578.	4.6	173
4	A new procedure for recycling waste tailings as cemented paste backfill to underground stopes and open pits. <i>Journal of Cleaner Production</i> , 2018, 188, 601-612.	4.6	134
5	Utilization of phosphogypsum and phosphate tailings for cemented paste backfill. <i>Journal of Environmental Management</i> , 2017, 201, 19-27.	3.8	128
6	An intelligent modelling framework for mechanical properties of cemented paste backfill. <i>Minerals Engineering</i> , 2018, 123, 16-27.	1.8	102
7	Experimental investigation on the strength characteristics of cement paste backfill in a similar stope model and its mechanism. <i>Construction and Building Materials</i> , 2017, 154, 34-43.	3.2	99
8	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
9	Characterization and evaluation of the pozzolanic activity of granulated copper slag modified with CaO. <i>Journal of Cleaner Production</i> , 2019, 232, 1112-1120.	4.6	87
10	Lithium slag and fly ash-based binder for cemented fine tailings backfill. <i>Journal of Environmental Management</i> , 2019, 248, 109282.	3.8	86
11	Towards Intelligent Mining for Backfill: A genetic programming-based method for strength forecasting of cemented paste backfill. <i>Minerals Engineering</i> , 2019, 133, 69-79.	1.8	84
12	Pressure drop in pipe flow of cemented paste backfill: Experimental and modeling study. <i>Powder Technology</i> , 2018, 333, 9-18.	2.1	81
13	Effect of overflow tailings properties on cemented paste backfill. <i>Journal of Environmental Management</i> , 2019, 235, 133-144.	3.8	78
14	Constitutive modelling of cemented paste backfill: A data-mining approach. <i>Construction and Building Materials</i> , 2019, 197, 262-270.	3.2	69
15	Utilization of modified copper slag activated by Na ₂ SO ₄ and CaO for unclassified lead/zinc mine tailings based cemented paste backfill. <i>Journal of Environmental Management</i> , 2021, 290, 112608.	3.8	67
16	The rheological, mechanical and heavy metal leaching properties of cemented paste backfill under the influence of anionic polyacrylamide. <i>Chemosphere</i> , 2022, 286, 131630.	4.2	64
17	Mechanical Activation of Granulated Copper Slag and Its Influence on Hydration Heat and Compressive Strength of Blended Cement. <i>Materials</i> , 2019, 12, 772.	1.3	62
18	Integrated and intelligent design framework for cemented paste backfill: A combination of robust machine learning modelling and multi-objective optimization. <i>Minerals Engineering</i> , 2020, 155, 106422.	1.8	54

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19	Data-driven modelling of the flocculation process on mineral processing tailings treatment. <i>Journal of Cleaner Production</i> , 2018, 196, 505-516.	4.6	52
20	A hydraulic gradient model of paste-like crude tailings backfill slurry transported by a pipeline system. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	51
21	Pressure drops of fresh cemented paste backfills through coupled test loop experiments and machine learning techniques. <i>Powder Technology</i> , 2020, 361, 748-758.	2.1	47
22	Flocculation-dewatering prediction of fine mineral tailings using a hybrid machine learning approach. <i>Chemosphere</i> , 2020, 244, 125450.	4.2	46
23	Utilisation of Water-Washing Pre-Treated Phosphogypsum for Cemented Paste Backfill. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 175.	0.8	45
24	Modification of glass structure via CaO addition in granulated copper slag to enhance its pozzolanic activity. <i>Construction and Building Materials</i> , 2020, 240, 117970.	3.2	45
25	Application of first-principles theory in ferrite phases of cemented paste backfill. <i>Minerals Engineering</i> , 2019, 133, 47-51.	1.8	44
26	Understanding Cement Hydration of Cemented Paste Backfill: DFT Study of Water Adsorption on Tricalcium Silicate (111) Surface. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 202.	0.8	43
27	Mechanical and environmental characteristics of cemented paste backfill containing lithium slag-blended binder. <i>Construction and Building Materials</i> , 2021, 271, 121567.	3.2	43
28	Hydration and strength development in blended cement with ultrafine granulated copper slag. <i>PLoS ONE</i> , 2019, 14, e0215677.	1.1	41
29	Mechanical properties of cemented tailings backfill containing alkalized rice straw of various lengths. <i>Journal of Environmental Management</i> , 2020, 276, 111124.	3.8	37
30	Effects of temperatures and pH values on rheological properties of cemented paste backfill. <i>Journal of Central South University</i> , 2021, 28, 1707-1723.	1.2	36
31	Initial hydration process of calcium silicates in Portland cement: A comprehensive comparison from molecular dynamics simulations. <i>Cement and Concrete Research</i> , 2021, 149, 106576.	4.6	32
32	In-situ stabilization/solidification of lead/zinc mine tailings by cemented paste backfill modified with low-carbon bentonite alternative. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1200-1210.	2.6	28
33	Rapid identification of reactivity for the efficient recycling of coal fly ash: Hybrid machine learning modeling and interpretation. <i>Journal of Cleaner Production</i> , 2022, 343, 130958.	4.6	28
34	Recycling Lead&Zinc Tailings for Cemented Paste Backfill and Stabilisation of Excessive Metal. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 710.	0.8	24
35	Cemented Backfilling Technology of Paste-Like Based on Aeolian Sand and Tailings. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 710.	0.8	23
36	Hydration reactivity difference between dicalcium silicate and tricalcium silicate revealed from structural and Bader charge analysis. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 335-344.	2.4	23

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37	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
38	Hydration development of blended cement paste with granulated copper slag modified with CaO and Al ₂ O ₃ . <i>Journal of Materials Research and Technology</i> , 2022, 18, 909-920.	2.6	21
39	Feasibility of Recycling Ultrafine Leaching Residue by Backfill: Experimental and CFD Approaches. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 54.	0.8	20
40	Influence of coarse tailings on flocculation settlement. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 1065-1074.	2.4	18
41	Retention of phosphorus and fluorine in phosphogypsum for cemented paste backfill: Experimental and numerical simulation studies. <i>Environmental Research</i> , 2022, 214, 113775.	3.7	15
42	A Novel Combination of Gradient Boosted Tree and Optimized ANN Models for Forecasting Ground Vibration Due to Quarry Blasting. <i>Natural Resources Research</i> , 2021, 30, 4657-4671.	2.2	13
43	Strength Investigation of the Silt-Based Cemented Paste Backfill Using Lab Experiments and Deep Neural Network. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-12.	1.0	12
44	Superiority of Filtered Tailings Storage Facility to Conventional Tailings Impoundment in Southern Rainy Regions of China. <i>Sustainability</i> , 2016, 8, 1130.	1.6	10
45	Stability Evaluation of Layered Backfill Considering Filling Interval, Backfill Strength and Creep Behavior. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 271.	0.8	10
46	Resistance Loss in Cemented Paste Backfill Pipelines: Effect of Inlet Velocity, Particle Mass Concentration, and Particle Size. <i>Materials</i> , 2022, 15, 3339.	1.3	10
47	Backfilling behavior of a mixed aggregate based on construction waste and ultrafine tailings. <i>PLoS ONE</i> , 2017, 12, e0179872.	1.1	9
48	Chemical signatures to identify the origin of solid ashes for efficient recycling using machine learning. <i>Journal of Cleaner Production</i> , 2022, 368, 133020.	4.6	9
49	Safety Analysis of Synergetic Operation of Backfilling the Open Pit Using Tailings and Excavating the Ore Deposit Underground. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 818.	0.8	8
50	Coverage-dependent adsorption of H ₂ O on dicalcium silicate (1 0 0) surface: A DFT study. <i>Construction and Building Materials</i> , 2022, 321, 126403.	3.2	8
51	Evolutionary Random Forest Algorithms for Predicting the Maximum Failure Depth of Open Stope Hangingwalls. <i>IEEE Access</i> , 2018, 6, 72808-72813.	2.6	7
52	Role of Mg Impurity in the Water Adsorption over Low-Index Surfaces of Calcium Silicates: A DFT-D Study. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 665.	0.8	7
53	In Situ Remediation of Phosphogypsum with Water-Washing Pre-Treatment Using Cemented Paste Backfill: Rheology Behavior and Damage Evolution. <i>Materials</i> , 2021, 14, 6993.	1.3	6
54	Hydration and Mechanical Properties of Blended Cement with Copper Slag Pretreated by Thermochemical Modification. <i>Materials</i> , 2022, 15, 3477.	1.3	6

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55	Comparison and Determination of Optimal Machine Learning Model for Predicting Generation of Coal Fly Ash. <i>Crystals</i> , 2022, 12, 556.	1.0	5
56	Analytical Solution for Stress Distribution around Arbitrary Stopes Using Evolutionary Complex Variable Methods. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	4
57	Mechanical Properties and Microstructure Evolution of Cemented Tailings Backfill Under Seepage Pressure. <i>Frontiers in Materials</i> , 2022, 8, .	1.2	4
58	Effect of single water adsorption on the bond order of calcium silicates and its implication for hydration variation. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3510-3520.	1.9	2