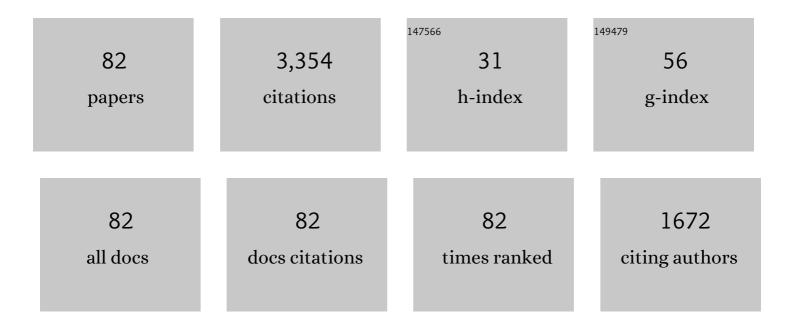
Ki-Il Song

List of Publications by Year in descending order

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KI-LI SONC

#	Article	IF	CITATIONS
1	Cemented paste backfill for mineral tailings management: Review and future perspectives. Minerals Engineering, 2019, 144, 106025.	1.8	360
2	Recycling phosphogypsum and construction demolition waste for cemented paste backfill and its environmental impact. Journal of Cleaner Production, 2018, 186, 418-429.	4.6	282
3	Neural network and particle swarm optimization for predicting the unconfined compressive strength of cemented paste backfill. Construction and Building Materials, 2018, 159, 473-478.	3.2	205
4	A strength prediction model using artificial intelligence for recycling waste tailings as cemented paste backfill. Journal of Cleaner Production, 2018, 183, 566-578.	4.6	173
5	Experimental investigation on the relationship between pore characteristics and unconfined compressive strength of cemented paste backfill. Construction and Building Materials, 2018, 179, 254-264.	3.2	166
6	A new procedure for recycling waste tailings as cemented paste backfill to underground stopes and open pits. Journal of Cleaner Production, 2018, 188, 601-612.	4.6	134
7	An intelligent modelling framework for mechanical properties of cemented paste backfill. Minerals Engineering, 2018, 123, 16-27.	1.8	102
8	An experimental study on the early-age hydration kinetics of cemented paste backfill. Construction and Building Materials, 2019, 212, 283-294.	3.2	101
9	Numerical study on the pipe flow characteristics of the cemented paste backfill slurry considering hydration effects. Powder Technology, 2019, 343, 454-464.	2.1	89
10	Lithium slag and fly ash-based binder for cemented fine tailings backfill. Journal of Environmental Management, 2019, 248, 109282.	3.8	86
11	Towards Intelligent Mining for Backfill: A genetic programming-based method for strength forecasting of cemented paste backfill. Minerals Engineering, 2019, 133, 69-79.	1.8	84
12	Pressure drop in pipe flow of cemented paste backfill: Experimental and modeling study. Powder Technology, 2018, 333, 9-18.	2.1	81
13	A microstructural hydration model for cemented paste backfill considering internal sulfate attacks. Construction and Building Materials, 2019, 211, 99-108.	3.2	75
14	Xanthan Gum Biopolymer as Soil-Stabilization Binder for Road Construction Using Local Soil in Sri Lanka. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	69
15	Constitutive modelling of cemented paste backfill: A data-mining approach. Construction and Building Materials, 2019, 197, 262-270.	3.2	69
16	Pore and strength characteristics of cemented paste backfill using sulphide tailings: Effect of sulphur content. Construction and Building Materials, 2020, 237, 117452.	3.2	64
17	Effects of spatially variable weathered rock properties on tunnel behavior. Probabilistic Engineering Mechanics, 2011, 26, 413-426.	1.3	58
18	Co-disposal of magnesium slag and high-calcium fly ash as cementitious materials in backfill. Journal of Cleaner Production, 2021, 279, 123684.	4.6	56

#	Article	IF	CITATIONS
19	Experimental investigation of mechanical, hydration, microstructure and electrical properties of cemented paste backfill. Construction and Building Materials, 2020, 263, 120137.	3.2	54
20	Experimental study on thermal and mechanical properties of cemented paste backfill with phase change material. Journal of Materials Research and Technology, 2020, 9, 2164-2175.	2.6	53
21	Data-driven modelling of the flocculation process on mineral processing tailings treatment. Journal of Cleaner Production, 2018, 196, 505-516.	4.6	52
22	Experimental investigation of solid-liquid two-phase flow in cemented rock-tailings backfill using Electrical Resistance Tomography. Construction and Building Materials, 2018, 175, 267-276.	3.2	48
23	Effects of curing time and ice-to-water ratio on performance of cemented paste backfill containing ice slag. Construction and Building Materials, 2019, 228, 116639.	3.2	45
24	Application of first-principles theory in ferrite phases of cemented paste backfill. Minerals Engineering, 2019, 133, 47-51.	1.8	44
25	Understanding Cement Hydration of Cemented Paste Backfill: DFT Study of Water Adsorption on Tricalcium Silicate (111) Surface. Minerals (Basel, Switzerland), 2019, 9, 202.	0.8	43
26	Mechanical and environmental characteristics of cemented paste backfill containing lithium slag-blended binder. Construction and Building Materials, 2021, 271, 121567.	3.2	43
27	Long-Wavelength Elastic Wave Propagation Across Naturally Fractured Rock Masses. Rock Mechanics and Rock Engineering, 2014, 47, 561-573.	2.6	42
28	Observation of the Degradation Characteristics and Scale of Unevenness on Three-dimensional Artificial Rock Joint Surfaces Subjected to Shear. Rock Mechanics and Rock Engineering, 2016, 49, 3-17.	2.6	38
29	Study on hydration reaction and structure evolution of cemented paste backfill in early-age based on resistivity and hydration heat. Construction and Building Materials, 2021, 272, 121827.	3.2	37
30	Bonding state evaluation of tunnel shotcrete applied onto hard rocks using the impact-echo method. NDT and E International, 2009, 42, 487-500.	1.7	35
31	DFT-D study of single water adsorption on low-index surfaces of calcium silicate phases in cement. Applied Surface Science, 2020, 518, 146255.	3.1	34
32	Destabilization of Marine Gas Hydrate-Bearing Sediments Induced by a Hot Wellbore: A Numerical Approach. Energy & Fuels, 2010, 24, 5493-5507.	2.5	33
33	Experimental and numerical study on rheological properties of ice-containing cement paste backfill slurry. Powder Technology, 2020, 370, 206-214.	2.1	33
34	Effect of curing time on the mesoscopic parameters of cemented paste backfill simulated using the particle flow code technique. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 590-602.	2.4	26
35	Rheological Properties of Cemented Tailing Backfill and the Construction of a Prediction Model. Materials, 2015, 8, 2076-2092.	1.3	25
36	A light barricade for tailings recycling as cemented paste backfill. Journal of Cleaner Production, 2020, 247, 119388.	4.6	25

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37	Precutting of tunnel perimeter for reducing blasting-induced vibration and damaged zone — numerical analysis. KSCE Journal of Civil Engineering, 2014, 18, 1165-1175.	0.9	23
38	Effect of the Cement–Tailing Ratio on the Hydration Products and Microstructure Characteristics of Cemented Paste Backfill. Arabian Journal for Science and Engineering, 2019, 44, 6547-6556.	1.7	23
39	Structural, electronic, and mechanical properties of calcium aluminate cements: Insight from first-principles theory. Construction and Building Materials, 2020, 264, 120259.	3.2	23
40	Prediction of unconfined compressive strength of pulverized fuel ash–cement–sand mixture. Materials and Structures/Materiaux Et Constructions, 2015, 48, 1061-1073.	1.3	22
41	Numerical simulation on heat storage performance of backfill body based on tube-in-tube heat exchanger. Construction and Building Materials, 2020, 265, 120340.	3.2	22
42	Impact of high-temperature-water cooling damage on the mechanical properties of concrete. Construction and Building Materials, 2019, 215, 233-243.	3.2	20
43	Long-Term Assessment of an Innovative Mangrove Rehabilitation Project: Case Study on Carey Island, Malaysia. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	19
44	Real-Time Location Tracking of Multiple Construction Laborers. Sensors, 2016, 16, 1869.	2.1	16
45	Evaluation of Morphodynamic Changes in the Vicinity of Low-Crested Breakwater on Cohesive Shore of Carey Island, Malaysia. Coastal Engineering Journal, 2015, 57, 1550023-1-1550023-27.	0.7	15
46	Auto-detection of acoustic emission signals from cracking of concrete structures using convolutional neural networks: Upscaling from specimen. Expert Systems With Applications, 2021, 186, 115863.	4.4	15
47	Utilization of Geotextile Tube for Sandy and Muddy Coastal Management: A Review. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	14
48	Stabilization of Gob-Side Entry with an Artificial Side for Sustaining Mining Work. Sustainability, 2016, 8, 627.	1.6	14
49	Magnesium chloride and sulfate attacks on gravel-sand-cement-inorganic binder mixture. Construction and Building Materials, 2018, 187, 565-571.	3.2	14
50	Quantitative investigation on micro-parameters of cemented paste backfill and its sensitivity analysis. Journal of Central South University, 2020, 27, 267-276.	1.2	14
51	The Concept, Technical System and Heat Transfer Analysis on Phase-Change Heat Storage Backfill for Exploitation of Geothermal Energy. Energies, 2020, 13, 4755.	1.6	11
52	Estimation of Wind-Driven Coastal Waves Near a Mangrove Forest Using Adaptive Neuro-Fuzzy Inference System. Water Resources Management, 2016, 30, 2391-2404.	1.9	10
53	Evolution of Joint Roughness Degradation from Cyclic Loading and Its Effect on the Elastic Wave Velocity. Rock Mechanics and Rock Engineering, 2016, 49, 3363-3370.	2.6	10
54	Prediction of ultrasonic pulse velocity for enhanced peat bricks using adaptive neuro-fuzzy methodology. Ultrasonics, 2015, 61, 103-113.	2.1	9

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55	Extraction of Pressurized Gas in Low Air-Conductivity Coal Seam Using Drainage Roadway. Sustainability, 2017, 9, 223.	1.6	8
56	An Experimental Study on the Microstructures of Cemented Paste Backfill during Its Developing Process. Advances in Civil Engineering, 2018, 2018, 1-10.	0.4	8
57	Use of Acoustic Emission for the Detection of Brittle Rock Failure under Various Loading Rates. Advances in Civil Engineering, 2018, 2018, 1-9.	0.4	8
58	Stress Wave Propagation in Viscoelastic-Plastic Rock-Like Materials. Materials, 2016, 9, 377.	1.3	7
59	Prediction of Fragmentation Zone Induced by Blasting in Rock. Rock Mechanics and Rock Engineering, 2017, 50, 2177-2192.	2.6	7
60	The Effect of Confining Pressure and Water Content on Energy Evolution Characteristics of Sandstone under Stepwise Loading and Unloading. Advances in Civil Engineering, 2018, 2018, 1-8.	0.4	7
61	Back analysis of an operating subsea tunnel considering the degradation of ground and concrete lining. Marine Georesources and Geotechnology, 2019, 37, 517-523.	1.2	7
62	Hydration and Mechanical Properties of Blended Cement with Copper Slag Pretreated by Thermochemical Modification. Materials, 2022, 15, 3477.	1.3	6
63	Use of a Pre-Drilled Hole for Implementing Thermal Needle Probe Method for Soils and Rocks. Energies, 2016, 9, 846.	1.6	5
64	Parameter Sensitivity Study for Typical Expander-Based Transcritical CO2 Refrigeration Cycles. Energies, 2018, 11, 1279.	1.6	5
65	Study on thermal performance of casingâ€ŧype mine heat recovery device with phase change materials filling in annular space. International Journal of Energy Research, 2021, 45, 17577-17596.	2.2	5
66	Electrical resistivity and elastic wave velocity of sand–cement–inorganic binder mixture. Environmental Geotechnics, 2020, 7, 318-329.	1.3	3
67	Real-Time Prediction of Operating Parameter of TBM during Tunneling. Applied Sciences (Switzerland), 2021, 11, 2967.	1.3	3
68	Numerical simulation on thermal accumulation of cemented tailings backfill. Journal of Central South University, 2021, 28, 2221-2237.	1.2	3
69	EVALUATION OF THE TIME-DEPENDENT CHARACTERISTICS OF GROUTED SAND USING AN ELASTIC WAVE. Modern Physics Letters B, 2008, 22, 899-904.	1.0	2
70	Performance-Based Evaluation of a Double-Deck Tunnel and Design Optimization. Sustainability, 2019, 11, 201.	1.6	2
71	Tunnel Back Analysis Based on Differential Evolution Using Stress and Displacement. Advances in Civil Engineering, 2020, 2020, 1-10.	0.4	2
72	Improvement of Bearing Capacity of Shallow Foundation with the Wall Attached to the Base-Slab: Model Test. KSCE Journal of Civil Engineering, 2021, 25, 1276-1282.	0.9	2

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73	Stochastic numerical study on the propagation characteristics of P-Wave in heterogeneous ground. Journal of Korean Tunnelling and Underground Space Association, 2013, 15, 13-24.	0.0	2
74	Comparison of earth pressure around pipe-roof between UPRS and front-jacking method. Journal of Korean Tunnelling and Underground Space Association, 2015, 17, 513-522.	0.0	2
75	Effect of micro soil properties on the macro behavior of a tunnel. Japanese Geotechnical Society Special Publication, 2016, 2, 625-629.	0.2	1
76	Development of Equivalent Stress- and Strain- Dependent Model for Jointed Rock Mass and Its Application to Underground Structure. KSCE Journal of Civil Engineering, 2021, 25, 4887-4896.	0.9	1
77	Optimal design for concrete pavement situated above box culvert: experimental and numerical study. International Journal of Pavement Engineering, 2017, 18, 433-442.	2.2	0
78	Impact of Interbedded Structure of Sand and Clay Layers on Geomechanical Responses of Hydrate-Bearing Sediments During Depressurization. , 2019, , .		0
79	Analysis on the characteristics of the earth pressure distribution induced by the integrated steel pipe-roof construction. Journal of Korean Tunnelling and Underground Space Association, 2013, 15, 455.	0.0	0
80	Estimation of subsea tunnel stability considering ground and lining stiffness degradation measurements. Journal of Korean Tunnelling and Underground Space Association, 2016, 18, 389-399.	0.0	0
81	The development of a back analysis program for subsea tunnel stability under operation: longitudinal direction. Journal of Korean Tunnelling and Underground Space Association, 2016, 18, 545-556.	0.0	0
82	Development of beam-spring model to analyse the stability of double-deck tunnel. Journal of Korean Tunnelling and Underground Space Association, 2017, 19, 301-317.	0.0	0