

Wei Victor Liu

List of Publications by Year in descending order

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39
papers

748
citations

471509

17
h-index

552781

26
g-index

39
all docs

39
docs citations

39
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling of temperature profiles in hardening belitic calcium sulfoaluminate cement-based mortars for permafrost region applications. <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 331-344.	3.1	3
2	Hysteresis loss of ultra-large off-the-road tire rubber compounds based on operating conditions at mine sites. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2022, 236, 439-450.	1.9	7
3	Effects of sodium gluconate on hydration reaction, setting, workability, and strength development of calcium sulfoaluminate belite cement mixtures. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 273-285.	3.1	7
4	Utilizing geothermal energy from enhanced geothermal systems as a heat source for oil sands separation: A numerical evaluation. <i>Energy</i> , 2022, 238, 121676.	8.8	7
5	Effects of temperature-dependent property variations on the output capacity prediction of a deep coaxial borehole heat exchanger. <i>Renewable Energy</i> , 2021, 165, 334-349.	8.9	25
6	Numerical study of coal dust behaviors and experimental investigation on coal dust suppression efficiency of surfactant solution by using wind tunnel tests. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 2173-2188.	2.3	14
7	Thermal properties of calcium sulfoaluminate cement-based mortars incorporated with expanded perlite cured at cold temperatures. <i>Construction and Building Materials</i> , 2021, 274, 122082.	7.2	20
8	Considering buried depth for vertical borehole heat exchangers in a borehole field with groundwater flow—An extended solution. <i>Energy and Buildings</i> , 2021, 235, 110722.	6.7	3
9	Effects of calcium aluminate cement on the acid resistance of metakaolin-based geopolymer. <i>Advances in Cement Research</i> , 2021, 33, 423-435.	1.6	7
10	Effects of cellulose nanocrystals on the acid resistance of cementitious composites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1745-1758.	4.9	6
11	Retrofitting abandoned petroleum wells as doublet deep borehole heat exchangers for geothermal energy production—a numerical investigation. <i>Renewable Energy</i> , 2021, 176, 115-134.	8.9	25
12	Methods to evaluate resistance of cement-based materials against microbially induced corrosion: A state-of-the-art review. <i>Cement and Concrete Composites</i> , 2021, 123, 104208.	10.7	7
13	Extending blending proportions of ordinary Portland cement and calcium sulfoaluminate cement blends: Its effects on setting, workability, and strength development. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 1249-1260.	2.9	9
14	Numerical modeling of a coaxial borehole heat exchanger to exploit geothermal energy from abandoned petroleum wells in Hinton, Alberta. <i>Renewable Energy</i> , 2020, 148, 1110-1123.	8.9	88
15	Performance evaluation of nano-silica and silica fume on enhancing acid resistance of cement-based composites for underground structures. <i>Journal of Central South University</i> , 2020, 27, 3821-3838.	3.0	8
16	Considering buried depth in the moving finite line source model for vertical borehole heat exchangers—A new solution. <i>Energy and Buildings</i> , 2020, 214, 109859.	6.7	18
17	Forecasting the deterioration of cement-based mixtures under sulfuric acid attack using support vector regression based on Bayesian optimization. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	9
18	Effects of initial particle gradation and rock content on crushing behaviors of weathered phyllite fills — A case of eastern Ankang section of Shiyang—Tianshui highway, China. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 269-278.	8.1	13

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19	The performance of calcium sulfoaluminate cement for preventing early-age frost damage. <i>Construction and Building Materials</i> , 2020, 254, 119322.	7.2	20
20	Physical investigation on the behaviours of voussoir beams. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 516-527.	8.1	7
21	Utilization and performance evaluation of molasses as a retarder and plasticizer for calcium sulfoaluminate cement-based mortar. <i>Construction and Building Materials</i> , 2020, 243, 118201.	7.2	27
22	Hydration reaction and strength development of calcium sulfoaluminate cement-based mortar cured at cold temperatures. <i>Construction and Building Materials</i> , 2019, 224, 493-503.	7.2	53
23	Experimental study on improving performance of dust-suppression foam by magnetization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 370-377.	4.7	19
24	Effect of polymer stabilizers' viscosity on red sand structure strength and dust pollution resistance. <i>Powder Technology</i> , 2019, 352, 117-125.	4.2	19
25	Effects of pozzolans on acid resistance of shotcrete for sewer tunnel rehabilitation. <i>Journal of Sustainable Cement-Based Materials</i> , 2019, 8, 55-77.	3.1	7
26	Strata movement and shield pressure analysis at Tongxin longwall top coal caving working face with extra-thick coal seam. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	5
27	Effect of Strata Conditions on Shield Pressure and Surface Subsidence at a Longwall Top Coal Caving Working Face. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 1523-1537.	5.4	40
28	Comparison of chemical suppressants under different atmospheric temperatures for the control of fugitive dust emission on mine hauls roads. <i>Atmospheric Pollution Research</i> , 2018, 9, 561-568.	3.8	38
29	Spontaneous combustion influenced by surface methane drainage and its prediction by rescaled range analysis. <i>International Journal of Mining Science and Technology</i> , 2018, 28, 215-221.	10.3	34
30	Effects of fibers on expansive shotcrete mixtures consisting of calcium sulfoaluminate cement, ordinary Portland cement, and calcium sulfate. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 212-221.	8.1	26
31	The Sustainability of Concrete in Sewer Tunnel—A Narrative Review of Acid Corrosion in the City of Edmonton, Canada. <i>Sustainability</i> , 2018, 10, 517.	3.2	47
32	A methane emission control strategy in the initial mining range at a spontaneous combustion-prone longwall face: A case study in coal 15, Shigang Mine, China. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 504-515.	4.4	19
33	Voussoir beam model for lower strong roof strata movement in longwall mining — Case study. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2017, 9, 1171-1176.	8.1	22
34	Cylindrical models of heat flow and thermo-elastic stresses in underground tunnels. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016, 26, 2139-2159.	2.8	12
35	Analytical and numerical modeling for the effects of thermal insulation in underground tunnels. <i>International Journal of Mining Science and Technology</i> , 2016, 26, 267-276.	10.3	13
36	Thermal properties of lightweight dry-mix shotcrete containing expanded perlite aggregate. <i>Cement and Concrete Composites</i> , 2014, 53, 44-51.	10.7	46

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37	Simulation of the Effects of Thermo Insulating Shotcrete on the Energy Consumption of Ventilation and Cooling Systems at Deep Underground Mines. , 2014, , 37-42.		2
38	Thermal characterisation of a lightweight mortar containing expanded perlite for underground insulation. International Journal of Mining and Mineral Engineering, 2011, 3, 55.	0.3	13
39	A novel phenomenological model for predicting hysteresis loss of rubber compounds obtained from ultra-large off-the-road tires. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702110724.	1.9	3