

Wei Victor Liu

List of Publications by Year in descending order

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39
papers

748
citations

471371
17
h-index

552653
26
g-index

39
all docs

39
docs citations

39
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.3	88
2	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.	3.2	53
3	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.	1.6	47
4	Thermal properties of lightweight dry-mix shotcrete containing expanded perlite aggregate. <i>Cement and Concrete Composites</i> , 2014, 53, 44-51.	4.6	46
5	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.	2.6	40
6	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.	1.8	38
7	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.	4.6	34
8	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.	3.2	27
9	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.	3.7	26
10	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.	4.3	25
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.	4.3	25
12	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.	3.7	22
13	The performance of calcium sulfoaluminate cement for preventing early-age frost damage. <i>Construction and Building Materials</i> , 2020, 254, 119322.	3.2	20
14	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.	3.2	20
15	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.	2.1	19
16	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.	2.3	19
17	Effect of polymer stabilizers' viscosity on red sand structure strength and dust pollution resistance. <i>Powder Technology</i> , 2019, 352, 117-125.	2.1	19
18	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.	3.1	18

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19	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.	1.2	14
20	Thermal characterisation of a lightweight mortar containing expanded perlite for underground insulation. <i>International Journal of Mining and Mineral Engineering</i> , 2011, 3, 55.	0.1	13
21	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.	4.6	13
22	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.	3.7	13
23	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.	1.6	12
24	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.	1.5	9
25	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.	1.2	9
26	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.	1.2	8
27	Effects of pozzolans on acid resistance of shotcrete for sewer tunnel rehabilitation. <i>Journal of Sustainable Cement-Based Materials</i> , 2019, 8, 55-77.	1.7	7
28	Physical investigation on the behaviours of voussoir beams. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 516-527.	3.7	7
29	Effects of calcium aluminate cement on the acid resistance of metakaolin-based geopolymer. <i>Advances in Cement Research</i> , 2021, 33, 423-435.	0.7	7
30	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.	1.1	7
31	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.	1.7	7
32	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.	4.6	7
33	Utilizing geothermal energy from enhanced geothermal systems as a heat source for oil sands separation: A numerical evaluation. <i>Energy</i> , 2022, 238, 121676.	4.5	7
34	Effects of cellulose nanocrystals on the acid resistance of cementitious composites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1745-1758.	2.4	6
35	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.	0.6	5
36	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.	3.1	3

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37	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.	1.1	3
38	Numerical modeling of temperature profiles in hardening belitic calcium sulfoaluminate cement-based mortars for permafrost region applications. Journal of Sustainable Cement-Based Materials, 2023, 12, 331-344.	1.7	3
39	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