

Qiang Liu

List of Publications by Year in descending order

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46
papers

3,096
citations

126907

33
h-index

233421

45
g-index

46
all docs

46
docs citations

46
times ranked

678
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining the optimal airflow rate to minimize air pollution in tunnels. <i>Chemical Engineering Research and Design</i> , 2022, 157, 115-130.	5.6	29
2	Research on negative pressure jet dust-removal water curtain technology for coal mine cleaner production. <i>Fuel</i> , 2022, 310, 122378.	6.4	30
3	Design and application of a dust suppression technology of the forcing air curtain in fully mechanized rock tunnelling faces. <i>Environmental Science and Pollution Research</i> , 2022, 29, 34943-34954.	5.3	11
4	Research on environmental dust pollution: ventilation and dust space-time evolution law of a fully mechanized mining face with 7-m mining height. <i>Environmental Science and Pollution Research</i> , 2022, 29, 33627-33644.	5.3	21
5	Comparative study of dust pollution and air quality of tunnelling anchor integrated machine working face with different ventilation. <i>Tunnelling and Underground Space Technology</i> , 2022, 122, 104377.	6.2	41
6	Study on dust-gas coupling pollution law and selection of optimal purification distance of air duct during tunneling process. <i>Environmental Science and Pollution Research</i> , 2022, 29, 74097-74117.	5.3	7
7	Distribution characteristics of an airflow-dust mixture and quantitative analysis of the dust absorption effect during tunnel sub-regional coal cutting. <i>Chemical Engineering Research and Design</i> , 2022, 164, 319-334.	5.6	15
8	Research on the blowing-spraying synergistic dust removal technology for clean environment in large-scale mechanization coal mine. <i>Fuel</i> , 2022, 324, 124508.	6.4	37
9	Experimental Studies on Cracking and Local Strain Behaviors of Rock-Like Materials with a Single Hole before and after Reinforcement under Biaxial Compression. <i>Geofluids</i> , 2021, 2021, 1-15.	0.7	5
10	Numerical Analysis of the Mud Inflow Model of Fractured Rock Mass Based on Particle Flow. <i>Geofluids</i> , 2021, 2021, 1-16.	0.7	7
11	An assessment of the dust suppression performance of a hybrid ventilation system during the tunnel excavation process: Numerical simulation. <i>Chemical Engineering Research and Design</i> , 2021, 152, 304-317.	5.6	33
12	Research on the control law of dust in the main ventilation system in excavated tunnels for cleaner production. <i>Building and Environment</i> , 2021, 205, 108282.	6.9	16
13	Effects of press-in airflow rate and the distance between the pressure duct and the side wall on ventilation dust suppression performance in an excavating tunnel. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	5.3	6
14	Numerical simulation study on dust pollution characteristics and optimal dust control air flow rates during coal mine production. <i>Journal of Cleaner Production</i> , 2020, 248, 119197.	9.3	156
15	A Synthesis of a Dust Suppressant Using the Cellulose Extracted from Maize Straw. <i>Starch/Staerke</i> , 2020, 72, 1900187.	2.1	22
16	Preparation and performance study of a novel polymeric spraying dust suppression agent with enhanced wetting and coagulation properties for coal mine. <i>Powder Technology</i> , 2020, 364, 901-914.	4.2	87
17	The preparation of a novel hydrogel based on crosslinked polymers for suppressing coal dusts. <i>Journal of Cleaner Production</i> , 2020, 249, 119343.	9.3	135
18	Investigation of efficient dust control strategy for construction tunnels: Ventilation System's implications for cleaner production. <i>Building and Environment</i> , 2020, 180, 107032.	6.9	35

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19	The dust diffusion modeling and determination of optimal airflow rate for removing the dust generated during mine tunneling. <i>Building and Environment</i> , 2020, 178, 106846.	6.9	77
20	Study on Airflow Migration and Rock Dust Pollution Behavior in TBM Construction Tunnel. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 8785-8801.	3.0	5
21	Coupled Hydraulic-Thermal Modelling and Related Numerical Analysis on Rock Fractures. <i>Geofluids</i> , 2020, 2020, 1-9.	0.7	0
22	CFD modeling of coal dust migration in an 8.8-meter-high fully mechanized mining face. <i>Energy</i> , 2020, 212, 118616.	8.8	48
23	Effect of wind curtain on dust extraction in rock tunnel working face: CFD and field measurement analysis. <i>Energy</i> , 2020, 197, 117214.	8.8	66
24	Numerical simulation of the multi-index orthogonal experiments on the spray dust-settling devices. <i>Powder Technology</i> , 2020, 371, 217-230.	4.2	38
25	The optimization of a dust suppression and clean production scheme in a TBM-constructed tunnel based on an orthogonal experiment. <i>Chemical Engineering Research and Design</i> , 2020, 136, 353-370.	5.6	43
26	Optimization of dust removal performance of ventilation system in tunnel constructed using shield tunneling machine. <i>Building and Environment</i> , 2020, 173, 106745.	6.9	42
27	The development and application of a novel multi-radial-vortex-based ventilation system for dust removal in a fully mechanized tunnelling face. <i>Tunnelling and Underground Space Technology</i> , 2020, 98, 103253.	6.2	83
28	CFD simulations of air curtain dust removal effect by ventilation parameters during tunneling. <i>Advanced Powder Technology</i> , 2020, 31, 2456-2468.	4.1	43
29	A study on the dust control effect of the dust extraction system in TBM construction tunnels based on CFD computer simulation technology. <i>Advanced Powder Technology</i> , 2019, 30, 2059-2075.	4.1	73
30	Long-duct forced and short-duct exhaust ventilation system in tunnels: Formation and dust control analysis of pressure ventilation air curtain. <i>Chemical Engineering Research and Design</i> , 2019, 132, 367-377.	5.6	56
31	Transient CFD modelling of space-time evolution of dust pollutants and air-curtain generator position during tunneling. <i>Journal of Cleaner Production</i> , 2019, 239, 117924.	9.3	108
32	Numerical simulation study on the coupling mechanism of composite-source airflow's dust field in a fully mechanized caving face. <i>Powder Technology</i> , 2019, 356, 443-457.	4.2	59
33	Research on mine dust suppression by spraying: Development of an air-assisted PM10 control device based on CFD technology. <i>Advanced Powder Technology</i> , 2019, 30, 2588-2599.	4.1	72
34	Multi-factor numerical simulation study on spray dust suppression device in coal mining process. <i>Energy</i> , 2019, 182, 544-558.	8.8	173
35	Modelling of ventilation and dust control effects during tunnel construction. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 358-371.	6.7	75
36	The effects of the spraying pressure and nozzle orifice diameter on the atomizing rules and dust suppression performances of an external spraying system in a fully-mechanized excavation face. <i>Powder Technology</i> , 2019, 350, 62-80.	4.2	87

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37	Modeling of rheological fracture behavior of rock cracks subjected to hydraulic pressure and far field stresses. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 101, 59-66.	4.7	227
38	Research on tunnel ventilation systems: Dust Diffusion and Pollution Behaviour by air curtains based on CFD technology and field measurement. <i>Building and Environment</i> , 2019, 147, 444-460.	6.9	250
39	Development of a novel wind-assisted centralized spraying dedusting device for dust suppression in a fully mechanized mining face. <i>Environmental Science and Pollution Research</i> , 2019, 26, 3292-3307.	5.3	73
40	The effects of the installation position of a multi-radial swirling air-curtain generator on dust diffusion and pollution rules in a fully-mechanized excavation face: A case study. <i>Powder Technology</i> , 2018, 329, 371-385.	4.2	120
41	Effects of air volume ratio parameters on air curtain dust suppression in a rock tunnel's fully-mechanized working face. <i>Advanced Powder Technology</i> , 2018, 29, 230-244.	4.1	173
42	Simulation experiments on the controllability of dust diffusion by means of multi-radial vortex airflow. <i>Advanced Powder Technology</i> , 2018, 29, 835-847.	4.1	95
43	Pattern characterization concerning spatial and temporal evolution of dust pollution associated with two typical ventilation methods at fully mechanized excavation faces in rock tunnels. <i>Powder Technology</i> , 2018, 334, 117-131.	4.2	97
44	The effects of the pressure outlet's position on the diffusion and pollution of dust in tunnel using a shield tunneling machine. <i>Energy and Buildings</i> , 2018, 176, 232-245.	6.7	62
45	Research on multi-radial swirling flow for optimal control of dust dispersion and pollution at a fully mechanized tunnelling face. <i>Tunnelling and Underground Space Technology</i> , 2018, 79, 293-303.	6.2	64
46	The effects of ventilation parameters on the migration behaviors of head-on dusts in the heading face. <i>Tunnelling and Underground Space Technology</i> , 2017, 70, 400-408.	6.2	94