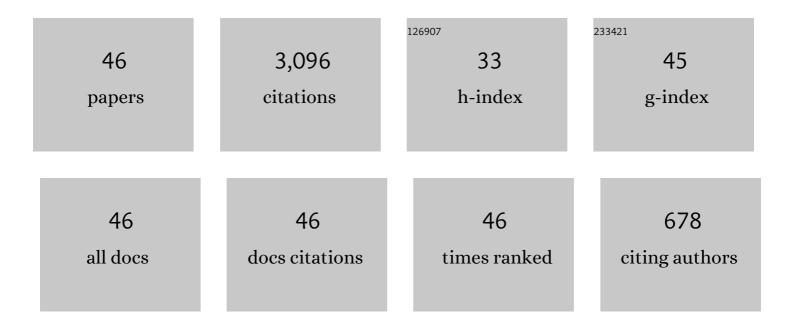
## Qiang Liu

## List of Publications by Year in descending order

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ΟιλΝΟ Ι.Ι.

#	Article	lF	CITATIONS
1	Research on tunnel ventilation systems: Dust Diffusion and Pollution Behaviour by air curtains based on CFD technology and field measurement. Building and Environment, 2019, 147, 444-460.	6.9	250
2	Modeling of rheological fracture behavior of rock cracks subjected to hydraulic pressure and far field stresses. Theoretical and Applied Fracture Mechanics, 2019, 101, 59-66.	4.7	227
3	Effects of air volume ratio parameters on air curtain dust suppression in a rock tunnel's fully-mechanized working face. Advanced Powder Technology, 2018, 29, 230-244.	4.1	173
4	Multi-factor numerical simulation study on spray dust suppression device in coal mining process. Energy, 2019, 182, 544-558.	8.8	173
5	Numerical simulation study on dust pollution characteristics and optimal dust control air flow rates during coal mine production. Journal of Cleaner Production, 2020, 248, 119197.	9.3	156
6	The preparation of a novel hydrogel based on crosslinked polymers for suppressing coal dusts. Journal of Cleaner Production, 2020, 249, 119343.	9.3	135
7	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. Powder Technology, 2018, 329, 371-385.	4.2	120
8	Transient CFD modelling of space-time evolution of dust pollutants and air-curtain generator position during tunneling. Journal of Cleaner Production, 2019, 239, 117924.	9.3	108
9	Pattern characterization concerning spatial and temporal evolution of dust pollution associated with two typical ventilation methods at fully mechanized excavation faces in rock tunnels. Powder Technology, 2018, 334, 117-131.	4.2	97
10	Simulation experiments on the controllability of dust diffusion by means of multi-radial vortex airflow. Advanced Powder Technology, 2018, 29, 835-847.	4.1	95
11	The effects of ventilation parameters on the migration behaviors of head-on dusts in the heading face. Tunnelling and Underground Space Technology, 2017, 70, 400-408.	6.2	94
12	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. Powder Technology, 2019, 350, 62-80.	4.2	87
13	Preparation and performance study of a novel polymeric spraying dust suppression agent with enhanced wetting and coagulation properties for coal mine. Powder Technology, 2020, 364, 901-914.	4.2	87
14	The development and application of a novel multi-radial-vortex-based ventilation system for dust removal in a fully mechanized tunnelling face. Tunnelling and Underground Space Technology, 2020, 98, 103253.	6.2	83
15	The dust diffusion modeling and determination of optimal airflow rate for removing the dust generated during mine tunneling. Building and Environment, 2020, 178, 106846.	6.9	77
16	Modelling of ventilation and dust control effects during tunnel construction. International Journal of Mechanical Sciences, 2019, 160, 358-371.	6.7	75
17	A study on the dust control effect of the dust extraction system in TBM construction tunnels based on CFD computer simulation technology. Advanced Powder Technology, 2019, 30, 2059-2075.	4.1	73
18	Development of a novel wind-assisted centralized spraying dedusting device for dust suppression in a fully mechanized mining face. Environmental Science and Pollution Research, 2019, 26, 3292-3307.	5.3	73

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19	Research on mine dust suppression by spraying: Development of an air-assisted PM10 control device based on CFD technology. Advanced Powder Technology, 2019, 30, 2588-2599.	4.1	72
20	Effect of wind curtain on dust extraction in rock tunnel working face: CFD and field measurement analysis. Energy, 2020, 197, 117214.	8.8	66
21	Research on multi-radial swirling flow for optimal control of dust dispersion and pollution at a fully mechanized tunnelling face. Tunnelling and Underground Space Technology, 2018, 79, 293-303.	6.2	64
22	The effects of the pressure outlet's position on the diffusion and pollution of dust in tunnel using a shield tunneling machine. Energy and Buildings, 2018, 176, 232-245.	6.7	62
23	Numerical simulation study on the coupling mechanism of composite-source airflow–dust field in a fully mechanized caving face. Powder Technology, 2019, 356, 443-457.	4.2	59
24	Long-duct forced and short-duct exhaust ventilation system in tunnels: Formation and dust control analysis of pressure ventilation air curtain. Chemical Engineering Research and Design, 2019, 132, 367-377.	5.6	56
25	CFD modeling of coal dust migration in an 8.8-meter-high fully mechanized mining face. Energy, 2020, 212, 118616.	8.8	48
26	The optimization of a dust suppression and clean production scheme in a TBM-constructed tunnel based on an orthogonal experiment. Chemical Engineering Research and Design, 2020, 136, 353-370.	5.6	43
27	CFD simulations of air curtain dust removal effect by ventilation parameters during tunneling. Advanced Powder Technology, 2020, 31, 2456-2468.	4.1	43
28	Optimization of dust removal performance of ventilation system in tunnel constructed using shield tunneling machine. Building and Environment, 2020, 173, 106745.	6.9	42
29	Comparative study of dust pollution and air quality of tunnelling anchor integrated machine working face with different ventilation. Tunnelling and Underground Space Technology, 2022, 122, 104377.	6.2	41
30	Numerical simulation of the multi-index orthogonal experiments on the spray dust-settling devices. Powder Technology, 2020, 371, 217-230.	4.2	38
31	Research on the blowing-spraying synergistic dust removal technology for clean environment in large-scale mechanization coal mine. Fuel, 2022, 324, 124508.	6.4	37
32	Investigation of efficient dust control strategy for construction tunnels: Ventilation System's implications for cleaner production. Building and Environment, 2020, 180, 107032.	6.9	35
33	An assessment of the dust suppression performance of a hybrid ventilation system during the tunnel excavation process: Numerical simulation. Chemical Engineering Research and Design, 2021, 152, 304-317.	5.6	33
34	Research on negative pressure jet dust-removal water curtain technology for coal mine cleaner production. Fuel, 2022, 310, 122378.	6.4	30
35	Determining the optimal airflow rate to minimize air pollution in tunnels. Chemical Engineering Research and Design, 2022, 157, 115-130.	5.6	29
36	A Synthesis of a Dust Suppressant Using the Cellulose Extracted from Maize Straw. Starch/Staerke, 2020. 72. 1900187.	2.1	22

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#	Article	IF	CITATIONS
37	Research on environmental dust pollution: ventilation and dust space–time evolution law of a fully mechanized mining face with 7-m mining height. Environmental Science and Pollution Research, 2022, 29, 33627-33644.	5.3	21
38	Research on the control law of dust in the main ventilation system in excavated tunnels for cleaner production. Building and Environment, 2021, 205, 108282.	6.9	16
39	Distribution characteristics of an airflow–dust mixture and quantitative analysis of the dust absorption effect during tunnel sub-regional coal cutting. Chemical Engineering Research and Design, 2022, 164, 319-334.	5.6	15
40	Design and application of a dust suppression technology of the forcing air curtain in fully mechanized rock tunnelling faces. Environmental Science and Pollution Research, 2022, 29, 34943-34954.	5.3	11
41	Numerical Analysis of the Mud Inflow Model of Fractured Rock Mass Based on Particle Flow. Geofluids, 2021, 2021, 1-16.	0.7	7
42	Study on dust–gas coupling pollution law and selection of optimal purification distance of air duct during tunneling process. Environmental Science and Pollution Research, 2022, 29, 74097-74117.	5.3	7
43	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. Environmental Science and Pollution Research, 2021, , 1.	5.3	6
44	Study on Airflow Migration and Rock Dust Pollution Behavior in TBM Construction Tunnel. Arabian Journal for Science and Engineering, 2020, 45, 8785-8801.	3.0	5
45	Experimental Studies on Cracking and Local Strain Behaviors of Rock-Like Materials with a Single Hole before and after Reinforcement under Biaxial Compression. Geofluids, 2021, 2021, 1-15.	0.7	5
46	Coupled Hydraulic-Thermal Modelling and Related Numerical Analysis on Rock Fractures. Geofluids, 2020, 2020, 1-9.	0.7	0