

# Zhenjiao Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/989984/publications.pdf>

Version: 2024-02-01

24

papers

791

citations

623734

14

h-index

642732

23

g-index

24

all docs

24

docs citations

24

times ranked

287

citing authors

#	ARTICLE	IF	CITATIONS
1	Development of cement dust suppression technology during shotcrete in mine of China-A review. Journal of Loss Prevention in the Process Industries, 2018, 55, 232-242.	3.3	134
2	Investigating and optimizing the mix proportion of pumping wet-mix shotcrete with polypropylene fiber. Construction and Building Materials, 2017, 150, 14-23.	7.2	104
3	Rheological properties of fresh concrete and its application on shotcrete. Construction and Building Materials, 2020, 243, 118180.	7.2	82
4	Effect of pumping and spraying processes on the rheological properties and air content of wet-mix shotcrete with various admixtures. Construction and Building Materials, 2019, 225, 311-323.	7.2	75
5	Airflow-Dust Migration Law and Control Technology Under the Simultaneous Operations of Shotcreting and Drilling in Roadways. Arabian Journal for Science and Engineering, 2019, 44, 4961-4969.	3.0	55
6	Analysis of dynamic mechanical properties of sprayed fiber-reinforced concrete based on the energy conversion principle. Construction and Building Materials, 2020, 254, 119167.	7.2	53
7	Investigating the migration law of aggregates during concrete flowing in pipe. Construction and Building Materials, 2020, 251, 119065.	7.2	45
8	A study of the effect of rheological properties of fresh concrete on shotcrete-rebound based on different additive components. Construction and Building Materials, 2019, 224, 1069-1080.	7.2	40
9	Numerical Modeling and Lattice Method for Characterizing Hydraulic Fracture Propagation: A Review of the Numerical, Experimental, and Field Studies. Archives of Computational Methods in Engineering, 2021, 28, 3329-3360.	10.2	36
10	Effects of substrate materials and liner thickness on the adhesive strength of the novel thin spray-on liner. Advances in Mechanical Engineering, 2020, 12, 168781402090457.	1.6	26
11	Flow characteristics of pneumatic conveying of stiff shotcrete based on CFD-DEM method. Powder Technology, 2022, 397, 117109.	4.2	23
12	Study on optimization of shotcrete loading technology and the diffusion law of intermittent dust generation. Journal of Cleaner Production, 2021, 312, 127765.	9.3	21
13	Spraying characteristics of mining wet shotcrete. Construction and Building Materials, 2022, 316, 125888.	7.2	18
14	Correlation between the mechanical properties and the fiber breaking morphology of fiber reinforced shotcrete (FRS). Composite Structures, 2021, 277, 114641.	5.8	16
15	Research on Compressive Strength of Manufactured Sand Concrete Based on Response Surface Methodology (RSM). Applied Sciences (Switzerland), 2022, 12, 3506.	2.5	15
16	Effect of inlet periodic velocity on the performance of standard cyclone separators. Powder Technology, 2022, 402, 117347.	4.2	11
17	Calibration of Contact Parameters for Moist Bulk of Shotcrete Based on EDEM. Advances in Materials Science and Engineering, 2022, 2022, 1-14.	1.8	10
18	Simulation of Two-Phase Flow of Shotcrete in a Bent Pipe Based on a CFD-DEM Coupling Model. Applied Sciences (Switzerland), 2022, 12, 3530.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Investigation of a new type of thermal insulation shotcrete with silicone rubber tubes (SSRT). Construction and Building Materials, 2022, 338, 127631.	7.2	7
20	Numerical simulation for optimizing the nozzle of moist-mix shotcrete based on orthogonal test. Journal of Measurements in Engineering, 2017, 5, 205-221.	0.6	6
21	Compressive Properties and Microstructure of Polymer-Concrete Under Dry Heat Environment at 80°C. Arabian Journal for Science and Engineering, 2022, 47, 12349-12364.	3.0	2
22	Experimental evaluation on mechanical and thermal insulation properties of shotcrete under constant-variable temperature. Structural Concrete, 2023, 24, 2041-2056.	3.1	2
23	Prediction analysis of human error probability for mine hoisting systems. , 2009, , .		1
24	Examination of Mixing Proportion in Self-Compacting Gangue-Based Pavement Concrete. Buildings, 2022, 12, 591.	3.1	1