

# Shao-jie Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,844  
citations

257101

24  
h-index

276539

41  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1152  
citing authors

#	ARTICLE	IF	CITATIONS
1	AE waveform characteristics of rock mass under uniaxial loading based on Hilbert-Huang transform. <i>Journal of Central South University</i> , 2021, 28, 1843-1856.	1.2	155
2	Rockburst mechanism in coal rock with structural surface and the microseismic (MS) and electromagnetic radiation (EMR) response. <i>Engineering Failure Analysis</i> , 2021, 124, 105396.	1.8	135
3	An overview of integrated surface subsidence-reducing technology in mining areas of China. <i>Natural Hazards</i> , 2016, 81, 1129-1145.	1.6	114
4	Characterization of the hydrochemistry of water resources of the Weibei Plain, Northern China, as well as an assessment of the risk of high groundwater nitrate levels to human health. <i>Environmental Pollution</i> , 2021, 268, 115947.	3.7	95
5	Study on In Situ Stress Distribution Law of the Deep Mine: Taking Linyi Mining Area as an Example. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-11.	1.0	89
6	Effects of chloride on the early mechanical properties and microstructure of gangue-cemented paste backfill. <i>Construction and Building Materials</i> , 2020, 235, 117504.	3.2	85
7	Surface collapse control under thick unconsolidated layers by backfilling strip mining in coal mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 113, 268-277.	2.6	83
8	Preparation and properties of polystyrene/SiCw/SiCp thermal conductivity composites. <i>Journal of Applied Polymer Science</i> , 2012, 124, 132-137.	1.3	81
9	Mechanical properties of oil shale-coal composite samples. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 123, 104120.	2.6	81
10	Effects of red mud additions on gangue-cemented paste backfill properties. <i>Powder Technology</i> , 2020, 367, 833-840.	2.1	79
11	Cracking mechanism and strength criteria evaluation of granite affected by intermediate principal stresses subjected to unloading stress state. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 143, 104783.	2.6	67
12	Effect of joint angle in coal on failure mechanical behaviour of roof rock-coal combined body. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2018, 51, 202-209.	0.8	66
13	Analysis of fractures of a hard rock specimen via unloading of central hole with different sectional shapes. <i>Energy Science and Engineering</i> , 2019, 7, 2265-2286.	1.9	58
14	A characterization of groundwater fluoride, influencing factors and risk to human health in the southwest plain of Shandong Province, North China. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111512.	2.9	57
15	“ <i>Journal of Central South University</i> , 2020, 27, 2864-2882.”	1.2	56
16	Mechanical properties of rock-coal bi-material samples with different lithologies under uniaxial loading. <i>Journal of Materials Research and Technology</i> , 2021, 10, 322-338.	2.6	54
17	Numerical study on strength and failure characteristics of rock samples with different hole defects. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 1523-1540.	1.6	43
18	Monitoring and correction of the stress in an anchor bolt based on Pulse Pre-Pumped Brillouin Optical Time Domain Analysis. <i>Energy Science and Engineering</i> , 2020, 8, 2011-2023.	1.9	42

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation on the Mechanical Behavior and Damage Evolution Mechanism of Water-Immersed Gypsum Rock. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 4929-4948.	2.6	35
20	Determination of critical criterion of tensile-shear failure in Brazilian disc based on theoretical analysis and meso-macro numerical simulation. <i>Computers and Geotechnics</i> , 2021, 134, 104096.	2.3	33
21	Influence of cyclic wetting&mdash;drying on the mechanical strength characteristics of coal samples: A laboratory&mdash;scale study. <i>Energy Science and Engineering</i> , 2019, 7, 3020-3037.	1.9	31
22	Experimental investigations on mechanical performance of rocks under fatigue loads and biaxial confinements. <i>Journal of Central South University</i> , 2020, 27, 2985-2998.	1.2	29
23	Theoretical analyses of stress field in surrounding rocks of weakly consolidated tunnel in a high-humidity deep environment. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 122, 104064.	2.6	28
24	Method to Predict the Height of the Water Conducting Fractured Zone Based on Bearing Structures in the Overlying Strata. <i>Mine Water and the Environment</i> , 2019, 38, 767-779.	0.9	27
25	Effects of external dynamic disturbances and structural plane on rock fracturing around deep underground cavern. <i>International Journal of Coal Science and Technology</i> , 2022, 9, 1.	2.7	25
26	Stress evolution of deep surrounding rock under characteristics of bi-modulus and strength drop. <i>Journal of Central South University</i> , 2022, 29, 680-692.	1.2	16
27	Simulation Study on Strength and Failure Characteristics for Granite with a Set of Cross-Joints of Different Lengths. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-10.	0.4	15
28	Excavation unloading&mdash;induced fracturing of hard rock containing different shapes of central holes affected by unloading rates and in situ stresses. <i>Energy Science and Engineering</i> , 2020, 8, 4-27.	1.9	15
29	Bed separation backfill to reduce surface cracking due to mining under thick and hard conglomerate: a case study. <i>Royal Society Open Science</i> , 2019, 6, 190880.	1.1	14
30	Effects of coal's initial macro-cracks on rockburst tendency of rock&mdash;coal composite samples. <i>Royal Society Open Science</i> , 2019, 6, 181795.	1.1	12
31	Displacement of surrounding rock in a deep circular hole considering double moduli and strength-stiffness degradation. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 1847-1860.	1.9	11
32	Bearing Capacity of Backfill Body and Roof Stability During Strip Coal Pillar Extracted with Paste Backfill. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 235-245.	0.8	10
33	Fracture Mechanical Behavior of Cracked Cantilever Roof with Large Cutting Height Mining. <i>Shock and Vibration</i> , 2020, 2020, 1-10.	0.3	10
34	Flow field characters near fracture entrance in supercritical carbon dioxide sand fracturing. , 2019, 9, 999-1009.		9
35	Coupling model of jointed rock mass and rock bolt in offshore LPG underground storage. <i>Energy Science and Engineering</i> , 2020, 8, 1468-1483.	1.9	9
36	An Experimental Study of the Uniaxial Failure Behaviour of Rock-Coal Composite Samples with Pre-existing Cracks in the Coal. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-12.	0.4	8

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37	Emission reduction process for dechlorinating flue gas desulfurization gypsum and reducing wastewater effluents: Application prospects from laboratory scale studies. <i>Energy Science and Engineering</i> , 2020, 8, 2662-2679.	1.9	8
38	Experimental investigation into the effects of composition and microstructure on the tensile properties and failure characteristics of different gypsum rocks. <i>Scientific Reports</i> , 2021, 11, 14517.	1.6	8
39	Experimental Development Process of a New Cement and Gypsum-Cemented Similar Material considering the Effect of Moisture. <i>Geofluids</i> , 2020, 2020, 1-14.	0.3	7
40	Three new conjugated polymers based on benzo[2,1-b:3,4-b <sup>2</sup> ]dithiophene: synthesis, characterization, photoinduced charge transfer and theoretical calculation studies. <i>Polymer Chemistry</i> , 2012, 3, 2244.	1.9	5
41	Prediction Model of Failure Zone in Roadway Sidewall considering the Lithologic Effect of Rock Formation. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.	0.6	5
42	Experimental Study on Properties of Rock-Cemented Coal Gangue-Fly Ash Backfill Bimaterials with Different Coal Gangue Particle Sizes. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-12.	0.4	5
43	Experimental Study on Sedimentary Rock's Dynamic Characteristics under Creep State Using a New Type of Testing Equipment. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-13.	1.0	4
44	Transfer of anchoring load in layered roadway roof under different lithological sequences. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	4
45	Impact Hazard Assessment of Mine Roadway Excavation Based on FAHP Method. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 1859-1868.	0.8	3
46	Characteristics of Discontinuous Surface Deformation Due to Mining in Hard, Thick Bedrock: A Case Study. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 2639-2645.	0.8	3
47	Experimental Study on Immersion Effects of Pressure Water on the Tensile Characteristics of Sandstone Samples. <i>Geofluids</i> , 2021, 2021, 1-11.	0.3	3
48	Experimental Study on Effects of Loading Rate and Sample Size on the Mechanical and Failure Characteristics of Mudstone. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 2735-2744.	0.8	3
49	Hydrochemical Analysis of Groundwater in Coastal Coal Mining Areas—A Case Study of the Liangjia Coal Mine, North China. <i>Mine Water and the Environment</i> , 2022, 41, 415-427.	0.9	3
50	Coupling model of disk splitting for expansive rock mass in deep storage considering water infiltration. <i>Energy Science and Engineering</i> , 2020, 8, 3200-3216.	1.9	2
51	Influence of Binder Types and Temperatures on the Mechanical Properties and Microstructure of Cemented Paste Backfill. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-10.	0.4	2
52	Deterioration Regularity of Sodium Sulfate Solution Attack on Cemented Coal Gangue-Fly Ash Backfill under Drying-Wetting Cycles. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-13.	0.4	1
53	Predicting the radial heat transfer in the wellbore of cryogenic nitrogen fracturing: Insights into stimulating underground reservoir. <i>Energy Science and Engineering</i> , 2020, 8, 582-591.	1.9	1
54	Epoxy monoacrylate synthesis and photopolymerization in a thiol-ene/cationic hybrid system. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	0