Jinyang Fan

List of Publications by Year
in descending order

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34 papers	1,710 citations	331670 21 h-index	395702 33 g-index
35 all docs	35 docs citations	35 times ranked	679 citing authors

#	Article	IF	Citations
1	Large-scale CO2 disposal/storage in bedded rock salt caverns of China: An evaluation of safety and suitability. Energy, 2022, 249, 123727.	8.8	31
2	Study on Optimization of the Dedusting Air Duct Layout in Coal Mine Roadway. Frontiers in Earth Science, 2022, 10, .	1.8	6
3	Influence of Geological and Environmental Factors on the Reconsolidation Behavior of Fine Granular Salt. Natural Resources Research, 2021, 30, 805-826.	4.7	45
4	Permeability evolution in tectonic coal: The roles of moisture and pressurized waterâ€injection. , 2021, 11, 633-646.		5
5	Evaluation of underground coal gas drainage performance: Mine site measurements and parametric sensitivity analysis. Chemical Engineering Research and Design, 2021, 148, 711-723.	5.6	39
6	Laboratory Measurement of Permeability Evolution Behaviors Induced by Non-Sorbing/Sorbing Gas Depletion in Coal Using Pulse-Decay Method. Transport in Porous Media, 2021, 139, 595.	2.6	4
7	Crack Evolution and Failure Modes of Shale Containing a Pre-Existing Fissure under Compression. ACS Omega, 2021, 6, 25461-25475.	3.5	10
8	Investigation on the influences of interlayer contents on stability and usability of energy storage caverns in bedded rock salt. Energy, 2021, 231, 120968.	8.8	53
9	Quantitative investigation on the stability of salt cavity gas storage with multiple interlayers above the cavity roof. Journal of Energy Storage, 2021, 44, 103298.	8.1	18
10	A Thermoâ€“Hydroâ€“Mechanical Model: Capturing the Effects of Initial Permeability and Gas Pressure on Outburst-Prone Indicators. Natural Resources Research, 2020, 29, 1897-1914.	4.7	6
11	Preliminary feasibility analysis of a hybrid pumped-hydro energy storage system using abandoned coal mine goafs. Applied Energy, 2020, 258, 114007.	10.1	119
12	Stability study and optimization design of small-spacing two-well (SSTW) salt caverns for natural gas storages. Journal of Energy Storage, 2020, 27, 101131.	8.1	90
13	Temperature variations of coal in the heading face measured using a thermo-hydro-mechanical model considering desorptional heat. Applied Thermal Engineering, 2020, 181, 115969.	6.0	5
14	Research on gas leakage and collapse in the cavern roof of underground natural gas storage in thinly bedded salt rocks. Journal of Energy Storage, 2020, 31, 101669.	8.1	69
15	Study on the mechanical properties of man-made salt rock samples with impurities. Journal of Natural Gas Science and Engineering, 2020, 84, 103683.	4.4	44
16	Time Interval Effect in Triaxial Discontinuous Cyclic Compression Tests and Simulations for the Residual Stress in Rock Salt. Rock Mechanics and Rock Engineering, 2020, 53, 4061-4076.	5.4	85
17	Evaluation of Potential for Salt Cavern Gas Storage and Integration of Brine Extraction: Cavern Utilization, Yangtze River Delta Region. Natural Resources Research, 2020, 29, 3275-3290.	4.7	60
18	Feasibility evaluation of large-scale underground hydrogen storage in bedded salt rocks of China: A case study in Jiangsu province. Energy, 2020, 198, 117348.	8.8	149

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19	A coupled methane/air flow model for coal gas drainage: Model development and finite-difference solution. Chemical Engineering Research and Design, 2020, 141, 288-304.	5.6	72
20	Microscopic investigations on the healing and softening of damaged salt by uniaxial deformation from CT, SEM and NMR: effect of fluids (brine and oil). RSC Advances, 2020, 10, 2877-2886.	3.6	22
21	Research on the Stability and Treatments of Natural Gas Storage Caverns With Different Shapes in Bedded Salt Rocks. IEEE Access, 2020, 8, 18995-19007.	4.2	50
22	Computed tomography analysis on cyclic fatigue and damage properties of rock salt under gas pressure. International Journal of Fatigue, 2020, 134, 105523.	5.7	54
23	Oil-water separation device based on super-hydrophobic material with multi-scale surface structure. Surface Topography: Metrology and Properties, 2020, 8, 025006.	1.6	1
24	Physical simulation of construction and control of two butted-well horizontal cavern energy storage using large molded rock salt specimens. Energy, 2019, 185, 682-694.	8.8	143
25	Study on the mechanism of roof collapse and leakage of horizontal cavern in thinly bedded salt rocks. Environmental Earth Sciences, 2019, 78, 1.	2.7	70
26	Non-monotonic Relaxation and Memory Effect of Rock Salt. Rock Mechanics and Rock Engineering, 2019, 52, 2471-2479.	5.4	11
27	Discontinuous fatigue of salt rock with low-stress intervals. International Journal of Rock Mechanics and Minings Sciences, 2019, 115, 77-86.	5.8	156
28	Preparation of Superhydrophobic Multiscale Films for Oil-Water Separation in a Harsh Environment. Advances in Materials Science and Engineering, 2019, 2019, 1-21.	1.8	4
29	A dilatancy-damage model considering temperature effect for rock salt from unloading path. Thermal Science, 2019, 23, 997-1003.	1.1	3
30	Thermodynamic and applicability analysis of a hybrid CAES system using abandoned coal mine in China. Energy, 2018, 157, 31-44.	8.8	43
31	Softening model for failure analysis of insoluble interlayers during salt cavern leaching for natural gas storage. Acta Geotechnica, 2018, 13, 801-816.	5.7	13
32	Discontinuous cyclic loading tests of salt with acoustic emission monitoring. International Journal of Fatigue, 2017, 94, 140-144.	5.7	72
33	A mechanism of fatigue in salt under discontinuous cycle loading. International Journal of Rock Mechanics and Minings Sciences, 2016, 86, 255-260.	5.8	69
34	Fatigue properties of rock salt subjected to interval cyclic pressure. International Journal of Fatigue, 2016, 90, 109-115.	5.7	89