

# 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	Discontinuous fatigue of salt rock with low-stress intervals. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 115, 77-86.	5.8	156
2	Feasibility evaluation of large-scale underground hydrogen storage in bedded salt rocks of China: A case study in Jiangsu province. <i>Energy</i> , 2020, 198, 117348.	8.8	149
3	Physical simulation of construction and control of two butted-well horizontal cavern energy storage using large molded rock salt specimens. <i>Energy</i> , 2019, 185, 682-694.	8.8	143
4	Preliminary feasibility analysis of a hybrid pumped-hydro energy storage system using abandoned coal mine goafs. <i>Applied Energy</i> , 2020, 258, 114007.	10.1	119
5	Stability study and optimization design of small-spacing two-well (SSTW) salt caverns for natural gas storages. <i>Journal of Energy Storage</i> , 2020, 27, 101131.	8.1	90
6	Fatigue properties of rock salt subjected to interval cyclic pressure. <i>International Journal of Fatigue</i> , 2016, 90, 109-115.	5.7	89
7	Time Interval Effect in Triaxial Discontinuous Cyclic Compression Tests and Simulations for the Residual Stress in Rock Salt. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4061-4076.	5.4	85
8	Discontinuous cyclic loading tests of salt with acoustic emission monitoring. <i>International Journal of Fatigue</i> , 2017, 94, 140-144.	5.7	72
9	A coupled methane/air flow model for coal gas drainage: Model development and finite-difference solution. <i>Chemical Engineering Research and Design</i> , 2020, 141, 288-304.	5.6	72
10	Study on the mechanism of roof collapse and leakage of horizontal cavern in thinly bedded salt rocks. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	70
11	A mechanism of fatigue in salt under discontinuous cycle loading. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 86, 255-260.	5.8	69
12	Research on gas leakage and collapse in the cavern roof of underground natural gas storage in thinly bedded salt rocks. <i>Journal of Energy Storage</i> , 2020, 31, 101669.	8.1	69
13	Evaluation of Potential for Salt Cavern Gas Storage and Integration of Brine Extraction: Cavern Utilization, Yangtze River Delta Region. <i>Natural Resources Research</i> , 2020, 29, 3275-3290.	4.7	60
14	Computed tomography analysis on cyclic fatigue and damage properties of rock salt under gas pressure. <i>International Journal of Fatigue</i> , 2020, 134, 105523.	5.7	54
15	Investigation on the influences of interlayer contents on stability and usability of energy storage caverns in bedded rock salt. <i>Energy</i> , 2021, 231, 120968.	8.8	53
16	Research on the Stability and Treatments of Natural Gas Storage Caverns With Different Shapes in Bedded Salt Rocks. <i>IEEE Access</i> , 2020, 8, 18995-19007.	4.2	50
17	Influence of Geological and Environmental Factors on the Reconsolidation Behavior of Fine Granular Salt. <i>Natural Resources Research</i> , 2021, 30, 805-826.	4.7	45
18	Study on the mechanical properties of man-made salt rock samples with impurities. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103683.	4.4	44

#	ARTICLE	IF	CITATIONS
19	Thermodynamic and applicability analysis of a hybrid CAES system using abandoned coal mine in China. <i>Energy</i> , 2018, 157, 31-44.	8.8	43
20	Evaluation of underground coal gas drainage performance: Mine site measurements and parametric sensitivity analysis. <i>Chemical Engineering Research and Design</i> , 2021, 148, 711-723.	5.6	39
21	Large-scale CO <sub>2</sub> disposal/storage in bedded rock salt caverns of China: An evaluation of safety and suitability. <i>Energy</i> , 2022, 249, 123727.	8.8	31
22	Microscopic investigations on the healing and softening of damaged salt by uniaxial deformation from CT, SEM and NMR: effect of fluids (brine and oil). <i>RSC Advances</i> , 2020, 10, 2877-2886.	3.6	22
23	Quantitative investigation on the stability of salt cavity gas storage with multiple interlayers above the cavity roof. <i>Journal of Energy Storage</i> , 2021, 44, 103298.	8.1	18
24	Softening model for failure analysis of insoluble interlayers during salt cavern leaching for natural gas storage. <i>Acta Geotechnica</i> , 2018, 13, 801-816.	5.7	13
25	Non-monotonic Relaxation and Memory Effect of Rock Salt. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2471-2479.	5.4	11
26	Crack Evolution and Failure Modes of Shale Containing a Pre-Existing Fissure under Compression. <i>ACS Omega</i> , 2021, 6, 25461-25475.	3.5	10
27	A Thermo-Hydro-Mechanical Model: Capturing the Effects of Initial Permeability and Gas Pressure on Outburst-Prone Indicators. <i>Natural Resources Research</i> , 2020, 29, 1897-1914.	4.7	6
28	Study on Optimization of the Dedusting Air Duct Layout in Coal Mine Roadway. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	6
29	Temperature variations of coal in the heading face measured using a thermo-hydro-mechanical model considering desorptional heat. <i>Applied Thermal Engineering</i> , 2020, 181, 115969.	6.0	5
30	Permeability evolution in tectonic coal: The roles of moisture and pressurized water injection. , 2021, 11, 633-646.		5
31	Preparation of Superhydrophobic Multiscale Films for Oil-Water Separation in a Harsh Environment. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-21.	1.8	4
32	Laboratory Measurement of Permeability Evolution Behaviors Induced by Non-Sorbing/Sorbing Gas Depletion in Coal Using Pulse-Decay Method. <i>Transport in Porous Media</i> , 2021, 139, 595.	2.6	4
33	A dilatancy-damage model considering temperature effect for rock salt from unloading path. <i>Thermal Science</i> , 2019, 23, 997-1003.	1.1	3
34	Oil-water separation device based on super-hydrophobic material with multi-scale surface structure. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 025006.	1.6	1