## Wei Liu

## List of Publications by Year in descending order

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WELLIN

#	Article	IF	CITATIONS
1	Discontinuous fatigue of salt rock with low-stress intervals. International Journal of Rock Mechanics and Minings Sciences, 2019, 115, 77-86.	2.6	156
2	Feasibility evaluation of large-scale underground hydrogen storage in bedded salt rocks of China: A case study in Jiangsu province. Energy, 2020, 198, 117348.	4.5	149
3	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.	4.5	143
4	Experimental investigation of mechanical behavior of bedded rock salt containing inclined interlayer. International Journal of Rock Mechanics and Minings Sciences, 2014, 69, 39-49.	2.6	113
5	Preliminary investigation on the feasibility of a clean CAES system coupled with wind and solar energy in China. Energy, 2017, 127, 462-478.	4.5	102
6	Permeability characteristics of mudstone cap rock and interlayers in bedded salt formations and tightness assessment for underground gas storage caverns. Engineering Geology, 2015, 193, 212-223.	2.9	91
7	Stability study and optimization design of small-spacing two-well (SSTW) salt caverns for natural gas storages. Journal of Energy Storage, 2020, 27, 101131.	3.9	90
8	Fastestâ€growing source prediction of US electricity production based on a novel hybrid model using wavelet transform. International Journal of Energy Research, 2022, 46, 1766-1788.	2.2	87
9	Stability and availability evaluation of underground strategic petroleum reserve (SPR) caverns in bedded rock salt of Jintan, China. Energy, 2017, 134, 504-514.	4.5	85
10	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.	2.6	85
11	A new hybrid algorithm model for prediction of internal corrosion rate of multiphase pipeline. Journal of Natural Gas Science and Engineering, 2021, 85, 103716.	2.1	79
12	Comprehensive feasibility study of two-well-horizontal caverns for natural gas storage in thinly-bedded salt rocks in China. Energy, 2018, 143, 1006-1019.	4.5	77
13	Study on the mechanism of roof collapse and leakage of horizontal cavern in thinly bedded salt rocks. Environmental Earth Sciences, 2019, 78, 1.	1.3	70
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.	3.9	69
15	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.	2.2	60
16	Investigation on the influences of interlayer contents on stability and usability of energy storage caverns in bedded rock salt. Energy, 2021, 231, 120968.	4.5	53
17	Research on the Stability and Treatments of Natural Gas Storage Caverns With Different Shapes in Bedded Salt Rocks. IEEE Access, 2020, 8, 18995-19007.	2.6	50
18	Dynamic response of underground gas storage salt cavern under seismic loads. Tunnelling and Underground Space Technology, 2014, 43, 241-252.	3.0	44

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19	Study on the mechanical properties of man-made salt rock samples with impurities. Journal of Natural Gas Science and Engineering, 2020, 84, 103683.	2.1	44
20	Thermodynamic and applicability analysis of a hybrid CAES system using abandoned coal mine in China. Energy, 2018, 157, 31-44.	4.5	43
21	Investigation on the permeability characteristics of bedded salt rocks and the tightness of natural gas caverns in such formations. Journal of Natural Gas Science and Engineering, 2016, 35, 468-482.	2.1	42
22	Microscopic Pore Structure of Surrounding Rock for Underground Strategic Petroleum Reserve (SPR) Caverns in Bedded Rock Salt. Energies, 2020, 13, 1565.	1.6	42
23	Longâ€ŧerm strength determination and nonlinear creep damage constitutive model of salt rock based on multistage creep test: Implications for underground natural gas storage in salt cavern. Energy Science and Engineering, 2020, 8, 1592-1603.	1.9	40
24	Influences of filling abandoned salt caverns with alkali wastes on surface subsidence. Environmental Earth Sciences, 2015, 73, 6939-6950.	1.3	39
25	Fatigue performance of ordinary concrete under discontinuous cyclic loading. Construction and Building Materials, 2018, 166, 974-981.	3.2	36
26	Study on Sealing Failure of Wellbore in Bedded Salt Cavern Gas Storage. Rock Mechanics and Rock Engineering, 2019, 52, 215-228.	2.6	34
27	Study on Damage and Repair Mechanical Characteristics of Rock Salt Under Uniaxial Compression. Rock Mechanics and Rock Engineering, 2019, 52, 659-671.	2.6	34
28	Large-scale CO2 disposal/storage in bedded rock salt caverns of China: An evaluation of safety and suitability. Energy, 2022, 249, 123727.	4.5	31
29	Investigation on the Deformation and Strength Characteristics of Rock Salt Under Different Confining Pressures. Geotechnical and Geological Engineering, 2020, 38, 5703-5717.	0.8	28
30	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.	1.7	22
31	Construction simulating and controlling of the two-well-vertical(TWV) salt caverns with gas blanket. Journal of Natural Gas Science and Engineering, 2021, 96, 104291.	2.1	20
32	Similarity assessment of acoustic emission signals and its application in source localization. Ultrasonics, 2017, 75, 36-45.	2.1	19
33	Tightness evaluation and countermeasures for hydrogen storage salt cavern contains various lithological interlayers. Journal of Energy Storage, 2022, 50, 104454.	3.9	19
34	Quantitative investigation on the stability of salt cavity gas storage with multiple interlayers above the cavity roof. Journal of Energy Storage, 2021, 44, 103298.	3.9	18
35	Construction simulation of large-spacing-two-well salt cavern with gas blanket and stability evaluation of cavern for gas storage. Journal of Energy Storage, 2022, 48, 103932.	3.9	18
36	Range estimation of horizontal stress of deep rock based on Mohr-Coulomb criterion. Results in Physics, 2019, 12, 2107-2111.	2.0	17

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37	Stability analysis of a typical two-well-horizontal saddle-shaped salt cavern. Journal of Energy Storage, 2021, 40, 102763.	3.9	17
38	Softening model for failure analysis of insoluble interlayers during salt cavern leaching for natural gas storage. Acta Geotechnica, 2018, 13, 801-816.	2.9	13
39	Preliminary research on the theory and application of unsaturated Red-layers embankment settlement based on rheology and consolidation theory. Environmental Earth Sciences, 2016, 75, 1.	1.3	12
40	Geological Feasibility of Underground Oil Storage in Jintan Salt Mine of China. Advances in Materials Science and Engineering, 2017, 2017, 1-11.	1.0	12
41	Crack Evolution and Failure Modes of Shale Containing a Pre-Existing Fissure under Compression. ACS Omega, 2021, 6, 25461-25475.	1.6	10
42	Experimental Study on the Anisotropic Characteristics and Engineering Application of Tight Sandstone. Advances in Materials Science and Engineering, 2021, 2021, 1-12.	1.0	4
43	Geochemical Characteristics and Sedimentary Environment of the Upper Permian Longtan Coal Series Shale in Western Guizhou Province, South China. Geofluids, 2021, 2021, 1-11.	0.3	4
44	Factors Controlling Shale Reservoirs and Development Potential Evaluation: A Case Study. Geofluids, 2021, 2021, 1-13.	0.3	2
45	Experimental Study on the Mechanical and Permeability Properties of Lining Concrete Under Different Complex Stress Paths. Frontiers in Earth Science, 2022, 10, .	0.8	2
46	Study on Mechanical Properties of Shale Under Different Loading Rates. Frontiers in Earth Science, 2022, 9, .	0.8	2
47	Investigation on the experimental determination of the apparent preconsolidation stress and effective-sealing condition for clay cap rock. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	1