Bing Bai

List of Publications by Year
in descending order

46 papers	736 citations	623734 14 h-index	580821 25 g-index
47 all docs	47 docs citations	47 times ranked	494 citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of possible CO_2 leakage with phase transition in wellbore-reservoir system based on the Ordos CCS project, China. International Journal of Greenhouse Gas Control, 2022, 114, 103578.	4.6	4
2	A local integral-generalized finite difference method with mesh-meshless duality and its application. Engineering Analysis With Boundary Elements, 2022, 139, 14-31.	3.7	3
3	Dissipated Energy as the Evaluation Index for the Double Reduction Method. International Journal of Geomechanics, 2021, 21, 06021012.	2.7	3
4	Characterizing CO_2 plume migration in multi-layer reservoirs with strong heterogeneity and low permeability using time-lapse 2D VSP technology and numerical simulation. International Journal of Greenhouse Gas Control, 2020, 92, 102880.	4.6	18
5	3D Numerical Modeling of Water–Rock Coupling Heat Transfer Within a Single Fracture. International Journal of Thermophysics, 2020, 41, 1.	2.1	3
6	Evaluative Analysis of Formulas of Heat Transfer Coefficient of Rock Fracture. International Journal of Thermophysics, 2020, 41, 1.	2.1	4
7	Applications for Deep Geothermal Engineering. , 2020, , 317-346.		0
8	The shear behavior of sandstone joints under different fluid and temperature conditions. Engineering Geology, 2019, 257, 105143.	6.3	24
9	A Hydro-fracturing Tester for Rock Saturated with Controlled Two-Phase Pore Fluids. Rock Mechanics and Rock Engineering, 2019, 52, 4147-4154.	5.4	2
10	Development of a Direct-Shear Apparatus Coupling with High Pore Pressure and Elevated Temperatures. Rock Mechanics and Rock Engineering, 2019, 52, 3475-3484.	5.4	15
11	Implementation of the Critical Unstable Condition in Extended Finite-Element Analysis to Calculate the Safety Factor of a Predefined Slip Surface. International Journal of Geomechanics, 2019, 19, .	2.7	2
12	Improved finite element–based limit equilibrium method for slope stability analysis by considering nonlinear strength criteria and its application in assessing the anchoring effect. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 578-598.	3.3	2
13	Experimental and theoretical study on the effect of unsteady flow on the fracturing pressure in hydraulic fracturing test. Natural Hazards, 2018, 90, 1137-1151.	3.4	1
14	An advanced analytical solution for pressure build-up during CO_2 injection into infinite saline aquifers: The role of compressibility. Advances in Water Resources, 2018, 112, 95-105.	3.8	5
15	Numerical study on the heat transfer characteristics between supercritical carbon dioxide and granite fracture wall. Geothermics, 2018, 75, 40-47.	3.4	25
16	Effect of the intermediate principal stress on the evolution of mudstone permeability under true triaxial compression. , 2018, 8, 37-50.		11
17	Effects of different fluids on microcrack propagation in sandstone under true triaxial loading conditions. , 2018, 8, 349-365.		7
18	Effect of Pore Fluid Pressure on the Normal Deformation of a Matched Granite Joint. Processes, 2018, 6, 107.	2.8	12

#	ARTICLE	IF	CITATIONS
19	Investigation on Heat Transfer Properties of Supercritical Water in a Rock Fracture for Enhanced Geothermal Systems. International Journal of Thermophysics, 2018, 39, 1.	2.1	6
20	Investigation on the Relationship between Wellhead Injection Pressure and Injection Rate for Practical Injection Control in CO2 Geological Storage Projects. Geofluids, 2018, 2018, 1-14.	0.7	3
21	Experimental and analytical study of the overall heat transfer coefficient of water flowing through a single fracture in a granite core. Applied Thermal Engineering, 2017, 116, 79-90.	6.0	74
22	An explicit finite difference model for prediction of wellbore pressure and temperature distribution in CO_2 geological sequestration. , 2017, 7, 353-369.		5
23	Stability Analysis of Prescribed Slip Surfaces Based on a Combination of the Equilibrium Equation and the Critical Unstable Condition. International Journal of Geomechanics, 2017, 17, .	2.7	5
24	A Geostatistical Study in Support of CO2 Storage in Deep Saline Aquifers of the Shenhua CCS Project, Ordos Basin, China. Energy Procedia, 2017, 114, 5826-5835.	1.8	20
25	Comparative Investigation on the Heat Transfer Characteristics of Gaseous $$hbox {CO}_{2}$$ CO 2 and Gaseous Water Flowing Through a Single Granite Fracture. International Journal of Thermophysics, 2017, 38, 1.	2.1	9
26	An Analytical Method for Determining the Convection Heat Transfer Coefficient Between Flowing Fluid and Rock Fracture Walls. Rock Mechanics and Rock Engineering, 2017, 50, 1787-1799.	5.4	17
27	A methodology for designing maximum allowable wellhead pressure for CO_2 injection: application to the Shenhua CCS demonstration project, China. , 2017, 7, 158-181.		17
28	A modified true triaxial apparatus for measuring mechanical properties of sandstone coupled with CO_2–H_2O biphase fluid. , 2017, 7, 78-91.		11
29	Evaluating Reservoir Risks and Their Influencing Factors during CO_2 Injection into Multilayered Reservoirs. Geofluids, 2017, 2017, 1-14.	0.7	1
30	Evaluating the Sealing Effectiveness of a Caprock-Fault System for CO_2-EOR Storage: A Case Study of the Shengli Oilfield. Geofluids, 2017, 2017, 1-17.	0.7	5
31	Assessing the applicability of unsaturated effective stress models to tensile fracturing of sandstone in CO_2–water two–phase fluids. , 2016, 6, 670-681.		2
32	An explicit integral solution for pressure build–up during CO_2 injection into infinite saline aquifers. , 2016, 6, 633-647.		8
33	Local heat transfer characteristics of water flowing through a single fracture within a cylindrical granite specimen. Environmental Earth Sciences, 2016, 75, 1.	2.7	37
34	Fluid friction and heat transfer through a single rough fracture in granitic rock under confining pressure. International Communications in Heat and Mass Transfer, 2016, 75, 78-85.	5.6	38
35	The geomechanics of Shenhua carbon dioxide capture and storage (CCS) demonstration project in Ordos Basin, China. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 948-966.	8.1	48
36	Effects of surface roughness on the heat transfer characteristics of water flow through a single granite fracture. Computers and Geotechnics, 2016, 80, 312-321.	4.7	58

#	Article	IF	Citations
37	An Analytical Model for Assessing Stability of Pre-Existing Faults in Caprock Caused by Fluid Injection and Extraction in a Reservoir. Rock Mechanics and Rock Engineering, 2016, 49, 2845-2863.	5.4	13
38	Evaluation Approach of the Slope Stability Based on Deformation Analysis. International Journal of Geomechanics, 2016, 16, .	2.7	14
39	Quantitative Measures for Characterizing the Sealing Ability of Caprock with Pore Networks in CO_2 Geological Storage. Energy Procedia, 2014, 63, 5435-5442.	1.8	5
40	Preliminary assessment of CO_2 transport and storage costs of promising source–sink matching scenarios in Guangdong province, China. Acta Geotechnica, 2014, 9, 115-126.	5.7	4
41	Carbon geological utilization and storage in China: current status and perspectives. Acta Geotechnica, 2014, 9, 7-27.	5.7	81
42	A new double reduction method for slope stability analysis. Journal of Central South University, 2014, 21, 1158-1164.	3.0	31
43	A New Cost Estimate Methodology for Onshore Pipeline Transport of CO_2 in China. Energy Procedia, 2013, 37, 7633-7638.	1.8	4
44	A strength reduction method based on double reduction parameters and its application. Journal of Central South University, 2013, 20, 2555-2562.	3.0	43
45	A Unified Formula for Determination of Wellhead Pressure and Bottom-hole Pressure. Energy Procedia, 2013, 37, 3291-3298.	1.8	12
46	A fast explicit finite difference method for determination of wellhead injection pressure. Journal of Central South University, 2012, 19, 3266-3272.	3.0	24