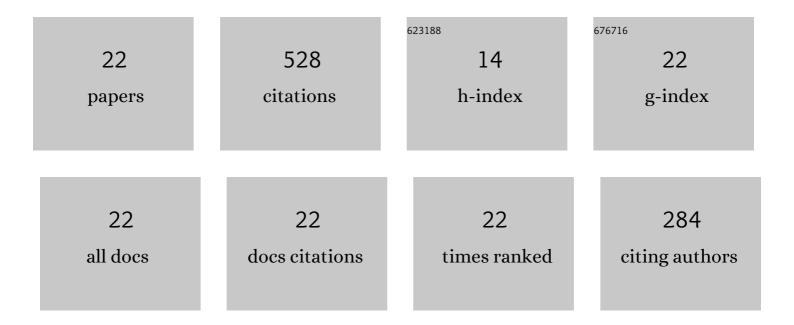
Chengpeng Zhang

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Permeability enhancement and porosity change of coal by liquid carbon dioxide phase change fracturing. Engineering Geology, 2021, 287, 106106.	2.9	60
2	Experimental investigation on the influence of sub- and super-critical CO2 saturation time on the permeability of fractured shale. Energy, 2020, 191, 116574.	4.5	50
3	Application of nanoindentation technology in rocks: a review. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	48
4	Mineral dissolution and pore alteration of coal induced by interactions with supercritical CO2. Energy, 2022, 248, 123627.	4.5	48
5	Influence of Water Saturation on the Mechanical Behaviour of Low-Permeability Reservoir Rocks. Energies, 2017, 10, 236.	1.6	46
6	Characteristics of Clay-Abundant Shale Formations: Use of CO2 for Production Enhancement. Energies, 2017, 10, 1887.	1.6	36
7	Microstructure and mechanical properties alterations in shale treated via CO2/CO2-water exposure. Journal of Petroleum Science and Engineering, 2021, 196, 108088.	2.1	32
8	Adsorption Characteristics and Thermodynamic Analysis of CH4 and CO2 on Continental and Marine Shale. Transport in Porous Media, 2021, 140, 763-788.	1.2	25
9	Chemical-mechanical coupling effects on the permeability of shale subjected to supercritical CO2-water exposure. Energy, 2022, 248, 123591.	4.5	24
10	Effect of sub-/super-critical CO2 and brine exposure on the mechanical and acoustic emission characteristics of shale. Journal of Natural Gas Science and Engineering, 2021, 90, 103921.	2.1	21
11	Uncovering the creep deformation mechanism of rock-forming minerals using nanoindentation. International Journal of Mining Science and Technology, 2022, 32, 283-294.	4.6	21
12	Mechanical response and mineral dissolution of anthracite induced by supercritical CO2 saturation: Influence of saturation time. Fuel, 2022, 319, 123759.	3.4	20
13	Gas adsorption characteristics changes in shale after supercritical CO2-water exposure at different pressures and temperatures. Fuel, 2022, 310, 122260.	3.4	19
14	Effects of temperature and grain size on the mechanical properties of polycrystalline quartz. Computational Materials Science, 2021, 188, 110138.	1.4	15
15	Mechanical properties of α-quartz using nanoindentation tests and molecular dynamics simulations. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104878.	2.6	15
16	Experimental Study of Matrix Permeability of Gas Shale: An Application to CO2-Based Shale Fracturing. Energies, 2018, 11, 702.	1.6	14
17	Experimental evaluation of gas flow characteristics in fractured siltstone under various reservoir and injection conditions: an application to CO2-based fracturing. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	11
18	The Role of Pore Pressure on the Mechanical Behavior of Coal Under Undrained Cyclic Triaxial Loading. Rock Mechanics and Rock Engineering, 2022, 55, 1375-1392.	2.6	9

#	Article	IF	CITATIONS
19	Numerical simulation on the deformation characteristics of borehole failure in gas-bearing coal seams considering the effective stress principle under complicated stress path conditions. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	1.3	6
20	The influence of particle size on the longâ€ŧerm electrochemical corrosion behavior of pipeline steel in a corrosive soil environment. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 846-857.	0.8	3
21	Comparison of CO2 Flow Behavior through Intact Siltstone Sample under Tri-Axial Steady-State and Transient Flow Conditions. Applied Sciences (Switzerland), 2018, 8, 1092.	1.3	3
22	Experimental and Theoretical Study on Comparisons of Some Gas Permeability Test Methods for Tight Rocks. Rock Mechanics and Rock Engineering, 2022, 55, 3153-3169.	2.6	2