Peng Hou

List of Publications by Year
in descending order

47	1,157	394421	377865
papers	citations	19 h-index	34 g-index

47	47	47	897
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of coal damage and cracking characteristics due to liquid nitrogen cooling on the basis of the energy evolution laws. Journal of Natural Gas Science and Engineering, 2016, 29, 30-36.	4.4	95
2	An active structure preservation method for developing functional graphitic carbon dots as an effective antibacterial agent and a sensitive pH and Al(<scp>iii</scp>) nanosensor. Nanoscale, 2017, 9, 17334-17341.	5.6	76
3	Effect of liquid nitrogen cooling on mechanical characteristics and fracture morphology of layer coal under Brazilian splitting test. International Journal of Rock Mechanics and Minings Sciences, 2022, 151, 105026.	5.8	69
4	Mechanical behaviour and permeability evolution of gas-containing coal from unloading confining pressure tests. Journal of Natural Gas Science and Engineering, 2017, 40, 336-346.	4.4	67
5	3D Multi-scale Reconstruction of Fractured Shale and Influence of Fracture Morphology on Shale Gas Flow. Natural Resources Research, 2021, 30, 2463-2481.	4.7	65
6	Quantitative visualization and characteristics of gas flow in 3D pore-fracture system of tight rock based on Lattice Boltzmann simulation. Journal of Natural Gas Science and Engineering, 2021, 89, 103867.	4.4	55
7	Experimental investigation on the failure and acoustic emission characteristics of shale, sandstone and coal under gas fracturing. Journal of Natural Gas Science and Engineering, 2016, 35, 211-223.	4.4	51
8	Effect of the layer orientation on mechanics and energy evolution characteristics of shales under uniaxial loading. International Journal of Mining Science and Technology, 2016, 26, 857-862.	10.3	49
9	Effect of water and nitrogen fracturing fluids on initiation and extension of fracture in hydraulic fracturing of porous rock. Journal of Natural Gas Science and Engineering, 2017, 45, 38-52.	4.4	46
10	Preparation of nitrogen-doped carbon dots with high quantum yield from Bombyx mori silk for Fe(<scp>iii</scp>) ions detection. RSC Advances, 2017, 7, 50584-50590.	3.6	45
11	A FRACTAL PERSPECTIVE ON FRACTURE INITIATION AND PROPAGATION OF RESERVOIR ROCKS UNDER WATER AND NITROGEN FRACTURING. Fractals, 2021, 29, .	3.7	45
12	Quantitative evaluation of stress-relief and permeability-increasing effects of overlying coal seams for coal mine methane drainage in Wulan coal mine. Journal of Natural Gas Science and Engineering, 2016, 32, 122-137.	4.4	44
13	Changes in pore structure and permeability of low permeability coal under pulse gas fracturing. Journal of Natural Gas Science and Engineering, 2016, 34, 1017-1026.	4.4	42
14	Numerical Investigation of Bedding Plane Parameters of Transversely Isotropic Shale. Rock Mechanics and Rock Engineering, 2017, 50, 1183-1204.	5.4	38
15	Effect of liquid nitrogen freezeâ€“thaw cycle on fracture toughness and energy release rate of saturated sandstone. Engineering Fracture Mechanics, 2021, 258, 108066.	4.3	37
16	Numerical investigation of hydraulic fracturing in transversely isotropic shale reservoirs based on the discrete element method. Journal of Natural Gas Science and Engineering, 2017, 46, 398-420.	4.4	35
17	Changes in breakdown pressure and fracture morphology of sandstone induced by nitrogen gas fracturing with different pore pressure distributions. International Journal of Rock Mechanics and Minings Sciences, 2018, 109, 84-90.	5.8	34
18	Moment tensor analysis of transversely isotropic shale based on the discrete element method. International Journal of Mining Science and Technology, 2017, 27, 507-515.	10.3	24

#	Article	IF	Citations
19	Experimental investigation on the breakdown behaviours of sandstone due to liquid nitrogen fracturing. Journal of Petroleum Science and Engineering, 2021, 200, 108386.	4.2	21
20	Shale gas transport mechanisms in inorganic and organic pores based on lattice Boltzmann simulation. Energy Reports, 2020, 6, 2641-2650.	5.1	20
21	Effect of pore pressure distribution on fracture behavior of sandstone in nitrogen fracturing. Energy Exploration and Exploitation, 2017, 35, 609-626.	2.3	16
22	Influence of Liquid Nitrogen Cooling State on Mechanical Properties and Fracture Characteristics of Coal. Rock Mechanics and Rock Engineering, 2022, 55, 3817-3836.	5.4	16
23	Simulation and visualization of the displacement between CO2 and formation fluids at pore-scale levels and its application to the recovery of shale gas. International Journal of Coal Science and Technology, 2016, 3, 351-369.	6.0	15
24	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Sensitivity Analysis. Pharmaceutical Research, 2021, 38, 1011-1030.	3.5	15
25	Enzymeâ€triggered fluorescence turnâ€off/turnâ€on of carbon dots for monitoring Î²â€glucosidase and its inhibitor in living cells. Luminescence, 2020, 35, 222-230.	2.9	14
26	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Model Development. Pharmaceutical Research, 2021, 38, 607-624.	3.5	14
27	Changes in mechanical properties and fracture behaviors of heated marble subjected to liquid nitrogen cooling. Engineering Fracture Mechanics, 2022, 261, 108256.	4.3	14
28	Highly sensitive detection of hepatitis C virus DNA by using a one-donor-four-acceptors FRET probe. Talanta, 2018, 185, 118-122.	5.5	13
29	Multiscale pharmacokinetic modeling of systemic exposure of subcutaneously injected biotherapeutics. Journal of Controlled Release, 2021, 337, 407-416.	9.9	13
30	ON ESTIMATING PLASTIC ZONES AND PROPAGATION ANGLES FOR MIXED MODE I/II CRACKS CONSIDERING FRACTAL EFFECT. Fractals, 2022, 30, .	3.7	13
31	Experimental and Numerical Study of the Effects of Layer Orientation on the Mechanical Behavior of Shale. Arabian Journal for Science and Engineering, 2019, 44, 4725-4743.	3.0	11
32	A FRACTAL PERSPECTIVE ON STRUCTURAL DAMAGE AND FRACTURE CHARACTERISTICS OF COAL SUBJECTED TO LIQUID NITROGEN COOLING AT LABORATORY-SCALE. Fractals, 2022, 30, .	3.7	6
33	Thermal diffusion and flow property of CO2/CH4 in organic nanopores with fractal rough surface. Thermal Science, 2019, 23, 1577-1583.	1.1	5
34	Effect of liquid nitrogen thermal shock on structure damage and brittleness properties of high-temperature marble. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	2.9	5
35	Numerical Evaluation on Stress and Permeability Evolution of Overlying Coal Seams for Gas Drainage and Gas Disaster Elimination in Protective Layer Mining. Mining, Metallurgy and Exploration, 2022, 39, 1027-1043.	0.8	5
36	Influence of Various Control Factors on Fracture Toughness and Fracture Energy of Sandstone Subjected to Liquid Nitrogen Cooling. Energy & Fuels, 2022, 36, 397-406.	5.1	4

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37	Role of Fractal Effect in Predicting Crack Initiation Angle and Its Application in Hydraulic Fracturing. Rock Mechanics and Rock Engineering, 2022, 55, 5491-5512.	5.4	4
38	Analytical solutions of linear diffusion and wave equations in semi-infinite domains by using a new integral transform. Thermal Science, 2017, 21, 71-78.	1.1	3
39	Understanding Formulation and Temperature Effects on Dermal Transport Kinetics by IVPT and Multiphysics Simulation. Pharmaceutical Research, 2022, 39, 893-905.	3.5	3
40	A Comparative Study on Fracture Characteristics of the Red Sandstone under Water and Nitrogen Gas Fracturing. Advances in Civil Engineering, 2018, 2018, 1-15.	0.7	2
41	Lattice Boltzmann simulation of fluid flow induced by thermal effect in heterogeneity porous media. Thermal Science, 2017, 21, 193-200.	1.1	2
42	Evaluation of the diffusive tortuosity by analyzing the molecular thermal motion displacement. Thermal Science, 2019, 23, 1433-1440.	1.1	2
43	A fully coupled thermo-hydro-mechanical model associated with inertia and slip effects. Thermal Science, 2017, 21, 259-266.	1.1	1
44	Effect of thermal cycling on mechanical properties and energy evolution of sandstone. Thermal Science, 2020, 24, 4001-4009.	1.1	1
45	Role of Liquid Nitrogen Cooling State in Physical and Tensile Properties of Sandstone. International Journal of Thermophysics, 2022, 43, 1.	2.1	1
46	Effect of Clay Minerals on Tensile Failure Characteristics of Shale. ACS Omega, 2022, 7, 24219-24230.	3.5	1
47	Effect of acid-base corrosion on the tensile strength of shale under different temperature. Thermal Science, 2020, 24, 3961-3969.	1.1	0