

Fazhi Yan

List of Publications by Year in descending order

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45
papers

1,566
citations

331670

21
h-index

302126

39
g-index

45
all docs

45
docs citations

45
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel ECBM extraction technology based on the integration of hydraulic slotting and hydraulic fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 571-579.	4.4	161
2	Novel integrated techniques of drilling“slotting“separation-sealing for enhanced coal bed methane recovery in underground coal mines. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 960-973.	4.4	155
3	Cross-borehole hydraulic slotting technique for preventing and controlling coal and gas outbursts during coal roadway excavation. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 518-525.	4.4	129
4	Breakdown process and fragmentation characteristics of anthracite subjected to high-voltage electrical pulses treatment. <i>Fuel</i> , 2020, 275, 117926.	6.4	73
5	Cracking Process and Stress Field Evolution in Specimen Containing Combined Flaw Under Uniaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3095-3113.	5.4	67
6	Experimental investigation on anthracite coal fragmentation by high-voltage electrical pulses in the air condition: Effect of breakdown voltage. <i>Fuel</i> , 2016, 183, 583-592.	6.4	66
7	Experimental investigation on crack competitive extension during hydraulic fracturing in coal measures strata. <i>Fuel</i> , 2020, 265, 117003.	6.4	66
8	Using high-voltage electrical pulses to crush coal in an air environment: An experimental study. <i>Powder Technology</i> , 2016, 298, 50-56.	4.2	65
9	Structural Evolution Characteristics of Middle“High Rank Coal Samples Subjected to High-Voltage Electrical Pulse. <i>Energy & Fuels</i> , 2018, 32, 3263-3271.	5.1	65
10	Effect of moisture content on structural evolution characteristics of bituminous coal subjected to high-voltage electrical pulses. <i>Fuel</i> , 2019, 241, 571-578.	6.4	63
11	Changes in pore structure and permeability of anthracite coal before and after high-voltage electrical pulses treatment. <i>Powder Technology</i> , 2019, 343, 560-567.	4.2	61
12	Effect of capacitance on physicochemical evolution characteristics of bituminous coal treated by high-voltage electric pulses. <i>Powder Technology</i> , 2020, 367, 47-55.	4.2	57
13	Dynamic behavior of gas pressure and optimization of borehole length in stress relaxation zone during coalbed methane production. <i>Fuel</i> , 2018, 233, 816-824.	6.4	41
14	Test system for the visualization of dynamic disasters and its application to coal and gas outburst. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 122, 104083.	5.8	32
15	Experimental study of drainage radius considering borehole interaction based on 3D monitoring of gas pressure in coal. <i>Fuel</i> , 2019, 239, 955-963.	6.4	30
16	Influence of coupled effect among flaw parameters on strength characteristic of precracked specimen: Application of response surface methodology and fractal method. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 857-866.	4.4	29
17	Improving the Conductivity and Porosity of Coal with NaCl Solution for High-Voltage Electrical Fragmentation. <i>Energy & Fuels</i> , 2018, 32, 5010-5019.	5.1	27
18	Effects of heating temperature on pore structure evolution of briquette coals. <i>Fuel</i> , 2021, 296, 120651.	6.4	25

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19	Influence of Geo-stress on Dynamic Response Characteristics of Coal and Gas Outburst. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4819-4837.	5.4	24
20	A Gas-Solid-Liquid Coupling Model of Coal Seams and the Optimization of Gas Drainage Boreholes. <i>Energies</i> , 2018, 11, 560.	3.1	23
21	Experimental Analysis of the Dynamic Effects of Coal-Gas Outburst and a Protean Contraction and Expansion Flow Model. <i>Natural Resources Research</i> , 2020, 29, 1617-1637.	4.7	23
22	Petrophysical variation of coal treated by cyclic high-voltage electrical pulse for coalbed methane recovery. <i>Journal of Petroleum Science and Engineering</i> , 2019, 178, 795-804.	4.2	22
23	Effect of high-voltage thermal breakdown on pore characteristics of coal. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 1051-1055.	10.3	21
24	Interlayer interference during coalbed methane coproduction in multilayer superimposed gas-bearing system by 3D monitoring of reservoir pressure: An experimental study. <i>Fuel</i> , 2021, 304, 121472.	6.4	20
25	Changes in Pore Structure of Dry-hot Rock with Supercritical CO ₂ Treatment. <i>Energy & Fuels</i> , 2020, 34, 6059-6068.	5.1	18
26	Investigation on gas drainage effect under different borehole layout via 3D monitoring of gas pressure. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 101, 104522.	4.4	18
27	Swelling characteristics and permeability evolution of anthracite coal containing expansive clay under water-saturated conditions. <i>Fuel</i> , 2020, 279, 118501.	6.4	17
28	Evolution characteristics of coal microstructure and its influence on methane adsorption capacity under high temperature pyrolysis. <i>Energy</i> , 2022, 254, 124262.	8.8	17
29	Effect of heating on the molecular carbon structure and the evolution of mechanical properties of briquette coal. <i>Energy</i> , 2021, 237, 121548.	8.8	16
30	Fluid response characteristics of multilayer superimposed CBM production under the different number of gas-producing layers condition. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 89, 103858.	4.4	15
31	Dynamic Evolution of the Fluid Effect of Multiple Reservoirs Due to CBM Coproduction: An Experimental Investigation. <i>Energy & Fuels</i> , 2020, 34, 10947-10957.	5.1	12
32	Effects of different conductive ions on pore-structure evolution of medium- and high-rank coal bodies induced by electric pulses. <i>Fuel</i> , 2021, 293, 120437.	6.4	12
33	Influence of supercritical CO ₂ saturation on the failure process of hot dry rock with acoustic emission monitoring. <i>Powder Technology</i> , 2020, 374, 241-249.	4.2	11
34	Experimental and numerical simulation analyses of selective fragmentation of coal samples by plasma. <i>Fuel</i> , 2019, 255, 115717.	6.4	10
35	Evolution characteristics of reservoir parameters during coalbed methane drainage via in-seam horizontal boreholes. <i>Powder Technology</i> , 2020, 362, 591-603.	4.2	10
36	Distribution characteristics of pulverized coal and stress-gas pressure-temperature response laws in coal and gas outburst under deep mining conditions. <i>Energy Science and Engineering</i> , 2022, 10, 2205-2223.	4.0	10

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37	On the evolution mechanism of permeability during gas drainage: Insights from deformation field, gas pressure field and temperature field. <i>Chemical Engineering Research and Design</i> , 2022, 162, 825-836.	5.6	10
38	Different adsorbed gas effects on the reservoir parameters and production in coalbed methane extraction by multibranch horizontal wells. <i>Energy Science and Engineering</i> , 2020, 8, 1370-1385.	4.0	9
39	Physical Simulations of Gas Production Mechanism in Constant-Rate Co-production from Multiple Coal Reservoirs. <i>Natural Resources Research</i> , 2021, 30, 1427-1443.	4.7	9
40	Pressure of different gases injected into large-scale coal matrix: Analysis of time-space dependence and prediction using light gradient boosting machine. <i>Fuel</i> , 2020, 279, 118448.	6.4	8
41	Evaluating the maximum rate of penetration for drilling borehole in soft coal seam. <i>Energy Science and Engineering</i> , 2020, 8, 3273-3284.	4.0	6
42	Experimental investigation on disturbance effect during coalbed methane production. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109591.	4.2	6
43	A Study on the Factors Influencing Coal Fracturing Range Caused by Liquid Carbon Dioxide Phase Transition. <i>Geofluids</i> , 2022, 2022, 1-12.	0.7	3
44	Effect of molecular carbon structures on the evolution of the pores and strength of lignite briquette coal with different heating rates. <i>Fuel</i> , 2022, 307, 121917.	6.4	2
45	Evolution of the Pore and Fracture Microstructure Inside Coal Impacted by a High-Voltage Electric Pulse after AlCl ₃ Solution Treatment. <i>Energy & Fuels</i> , 2021, 35, 18484-18494.	5.1	2