

# Gang Wang

## List of Publications by Year in descending order

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69  
papers

2,474  
citations

185998

28  
h-index

205818

48  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of cationic and anionic surfactants on long flame coal seam water injection. <i>Fuel</i> , 2022, 309, 122233.	3.4	33
2	Experimental study on preparation of nanoparticle-surfactant nanofluids and their effects on coal surface wettability. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 387-397.	4.6	38
3	Effect of Joint Roughness and Infill Thickness on Shear Characteristics of Rock Mass. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-12.	0.4	1
4	Numerical assessment of the pressure relief effect of the hydraulic punching cavitation technique in a soft coal seam. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, 1.	1.3	10
5	Research on the Influence of Natural Wind Pressure in Deep Mines on Ventilation Stability. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-12.	0.4	1
6	Prevention and Control of Spontaneous Combustion of Residual Coals in Acid-Soaked Goaf in Gas Drainage Condition. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-15.	0.4	3
7	Synergistic Stabilization Mechanism of SiO <sub>2</sub> Nanoparticles and Anionic Surfactants during Foam Fracturing. <i>Energy &amp; Fuels</i> , 2022, 36, 5327-5336.	2.5	4
8	Evaluating the changes of sorption and diffusion behaviors of Illinois coal with various water-based fracturing fluid treatments. <i>Fuel</i> , 2021, 283, 118884.	3.4	54
9	Study on seepage and deformation characteristics of coal microstructure by 3D reconstruction of CT images at high temperatures. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 175-185.	4.6	100
10	Special Issue on mine dust research: health effects and control technologies. <i>International Journal of Coal Science and Technology</i> , 2021, 8, 177-178.	2.7	4
11	Combustion of Low-Concentration Gas in a Porous Media Burner: Reactor Design and Optimization. <i>Shock and Vibration</i> , 2021, 2021, 1-12.	0.3	2
12	Experimental studies on the influence of sodium lauryl sulfate on seepage and wetting of water infusion of coalbeds. <i>Fuel</i> , 2021, 304, 121355.	3.4	14
13	Disaster-Triggering Mechanisms Based on Interaction of Various Factors in Structured Gas Migration in Coal Seams Under Loading and Unloading Conditions. <i>Natural Resources Research</i> , 2021, 30, 1445-1465.	2.2	0
14	Studies on Gas Seepage Characteristics in Different Stress Zones of Bottom Coal in Steeply Inclined and Extra-Thick Coal Seams under Mining Action. <i>ACS Omega</i> , 2021, 6, 34250-34262.	1.6	3
15	A new experimental apparatus for sudden unloading of gas-bearing coal. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 857-868.	1.6	15
16	Grain-scale reconstruction and simulation of coal mechanical deformation and failure behaviors using combined SEM Digital Rock data and DEM simulator. <i>Powder Technology</i> , 2020, 360, 1305-1320.	2.1	42
17	Short-term failure mechanism triggered by hydraulic fracturing. <i>Energy Science and Engineering</i> , 2020, 8, 592-601.	1.9	13
18	Theoretical, numerical, and experimental analysis of effective extraction radius of coalbed methane boreholes by a gas seepage model based on defined criteria. <i>Energy Science and Engineering</i> , 2020, 8, 880-897.	1.9	24

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19	Discrete element study on mesomechanical behavior of crack propagation in coal samples with two prefabricated fissures under biaxial compression. <i>Powder Technology</i> , 2020, 375, 42-59.	2.1	31
20	A comprehensive method for studying pore structure and seepage characteristics of coal mass based on 3D CT reconstruction and NMR. <i>Fuel</i> , 2020, 281, 118735.	3.4	64
21	Fracture permeability damage and recovery behaviors with fracturing fluid treatment of coal: An experimental study. <i>Fuel</i> , 2020, 282, 118809.	3.4	71
22	Characteristics of seepage of microemulsions in coal. <i>Journal of Molecular Liquids</i> , 2020, 304, 112742.	2.3	8
23	Seepage characteristics of fracture and dead-end pore structure in coal at micro- and meso-scales. <i>Fuel</i> , 2020, 266, 117058.	3.4	39
24	Strength criterion effect of the translator and destabilization model of gas-bearing coal seam. <i>International Journal of Mining Science and Technology</i> , 2019, 29, 327-333.	4.6	10
25	The effect of gas migration on the deformation and permeability of coal under the condition of true triaxial stress. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	8
26	Quantitative analysis of microscopic structure and gas seepage characteristics of low-rank coal based on CT three-dimensional reconstruction of CT images and fractal theory. <i>Fuel</i> , 2019, 256, 115900.	3.4	144
27	Treatment methods for natural wind pressure in mines with zonal ventilation system with diagonal branches "a case study of Wudong Coal Mine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, , 1-13.	1.2	1
28	Study on Spontaneous Combustion Tendency of Coals with Different Metamorphic Grade at Low Moisture Content Based on TPO-DSC. <i>Energies</i> , 2019, 12, 3890.	1.6	12
29	Three-dimensional modeling and analysis of macro-pore structure of coal using combined X-ray CT imaging and fractal theory. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 123, 104082.	2.6	148
30	Influence of gas migration on permeability of soft coalbed methane reservoirs under true triaxial stress conditions. <i>Royal Society Open Science</i> , 2019, 6, 190892.	1.1	7
31	Experimental study of the fracturing-wetting effect of VES fracturing fluid for the coal seam water injection. <i>Journal of Molecular Liquids</i> , 2019, 295, 111715.	2.3	40
32	Deformation and water transport behaviors study of heterogenous coal using CT-based 3D simulation. <i>International Journal of Coal Geology</i> , 2019, 211, 103204.	1.9	95
33	Gas sorption and diffusion damages by guar-based fracturing fluid for CBM reservoirs. <i>Fuel</i> , 2019, 251, 30-44.	3.4	51
34	Coalbed methane reservoir stimulation using guar-based fracturing fluid: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 107-125.	2.1	71
35	Experimental Study on Damage and Gas Migration Characteristics of Gas-Bearing Coal with Different Pore Structures under Sorption-Sudden Unloading of Methane. <i>Geofluids</i> , 2019, 2019, 1-11.	0.3	8
36	Thermal degradation of bituminous coal with both model-free and model-fitting methods. <i>Applied Thermal Engineering</i> , 2019, 152, 169-174.	3.0	56

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37	Experimental Study on the Coal Damage Characteristics of Adsorption-Instantaneous Pressure Relief in Coal Containing Gases with Different Adsorption Characteristics. Applied Sciences (Switzerland), 2019, 9, 5223.	1.3	6
38	Preparation and characteristics of a multifunctional dust suppressant with agglomeration and wettability performance used in coal mine. Chemical Engineering Research and Design, 2018, 132, 729-742.	2.7	117
39	Porosity model and air leakage flow field simulation of goaf based on DEM-CFD. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	33
40	Microscale Numerical Simulation of Non-Darcy Flow of Coalbed Methane. Arabian Journal for Science and Engineering, 2018, 43, 2547-2561.	1.7	12
41	Determination of Long Horizontal Borehole Height in Roofs and its Application to Gas Drainage. Energies, 2018, 11, 2647.	1.6	10
42	Study on gas-bearing coal seam destabilization based on the improved Lippmann model and stress wave theory. Journal of Loss Prevention in the Process Industries, 2018, 56, 334-341.	1.7	5
43	A Novel True Triaxial Apparatus for Testing Shear Seepage in Gas-Solid Coupling Coal. Geofluids, 2018, 2018, 1-9.	0.3	9
44	Secondary Spontaneous Combustion Characteristics of Coal Based on Programed Temperature Experiments. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	32
45	Preparation of a New Borehole Sealing Material of Coal Seam Water Infusion. Advances in Materials Science and Engineering, 2018, 2018, 1-7.	1.0	3
46	Study on the Low-Temperature Oxidation Law in the Co-Mining Face of Coal and Oil Shale in a Goaf—A Case Study in the Liangjia Coal Mine, China. Energies, 2018, 11, 174.	1.6	16
47	Direct fitting measurement of gas content in coalbed and selection of reasonable sampling time. International Journal of Mining Science and Technology, 2017, 27, 299-305.	4.6	10
48	Height of the mining-induced fractured zone above a coal face. Engineering Geology, 2017, 216, 140-152.	2.9	202
49	Technological aspects for underground coal gasification in steeply inclined thin coal seams at Zhongliangshan coal mine in China. Fuel, 2017, 191, 486-494.	3.4	51
50	The diffusion behavior law of respirable dust at fully mechanized caving face in coal mine: CFD numerical simulation and engineering application. Chemical Engineering Research and Design, 2017, 106, 117-128.	2.7	193
51	Deformation and gas flow characteristics of coal-like materials under triaxial stress conditions. International Journal of Rock Mechanics and Minings Sciences, 2017, 91, 72-80.	2.6	98
52	Experimental Investigation of Coal Dust Wettability Based on Surface Contact Angle. Journal of Chemistry, 2016, 2016, 1-8.	0.9	32
53	High Drilling Methane Drainage in Fracturing Zones Formed by Water Injection into Boreholes. Archives of Mining Sciences, 2016, 61, 137-156.	0.6	8
54	Experimental research on coal seam similar material proportion and its application. International Journal of Mining Science and Technology, 2016, 26, 913-918.	4.6	21

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55	Numerical simulation of gas flow in artificial fracture coal by three-dimensional reconstruction based on computed tomography. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 823-831.	2.1	46
56	Research and development of foamed gel for controlling the spontaneous combustion of coal in coal mine. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 474-486.	1.7	75
57	Effects of surfactants on the mechanical properties, microstructure, and flame resistance of phenol-urea-formaldehyde foam. <i>Polymer Bulletin</i> , 2016, 73, 1-20.	1.7	38
58	Analytical research on dynamic temperature field of overburden in goaf fire-area under piecewise-linear third boundary condition. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 812-824.	2.5	14
59	Gas Control Technology under Unstable Disturbance Stress. <i>International Journal of Engineering Research in Africa</i> , 2015, 15, 26-34.	0.7	0
60	Mining a coal seam below a heating goaf with a force auxiliary ventilation system at Longhua underground coal mine, China. <i>International Journal of Mining Science and Technology</i> , 2015, 25, 67-72.	4.6	5
61	Experimental Study on Coal Pore Characteristic Based on Cryogenic Liquid Nitrogen Method. <i>Applied Mechanics and Materials</i> , 2013, 341-342, 345-350.	0.2	1
62	Field Test Research on Two-dimensional Gas Concentration and Temperature Distribution in the Goaf of Fully Mechanized Caving Face. <i>Procedia Engineering</i> , 2012, 43, 478-483.	1.2	3
63	Early detection of spontaneous combustion of coal in underground coal mines with development of an ethylene enriching system. <i>International Journal of Coal Geology</i> , 2011, 85, 123-127.	1.9	97
64	Research on radon detecting technique for locating inaccessible underground heatings. <i>Science in China Series A: Mathematics</i> , 2011, 17, 270-274.	0.2	2
65	A coupled approach to simulate initiation of outbursts of coal and gas Model development. <i>International Journal of Coal Geology</i> , 2011, 86, 222-230.	1.9	97
66	Study on Distribution of Gas Concentration in Air Return Corner Based on Co-Kriging Interpretation. <i>Advanced Materials Research</i> , 0, 610-613, 1188-1193.	0.3	0
67	Prediction of gas emission from floor coalbed of steeply inclined and extremely thick coal seams mined using the horizontal sublevel top-coal caving method. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, 1-17.	1.2	3
68	Experimental study on the optimized anion fracturing fluid for improving coal samples permeability. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, 1-15.	1.2	3
69	The fire inhibition characteristics of composite inert gas and its application potential analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, 1-12.	1.2	7