

Ting Ren

List of Publications by Year in descending order

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128
papers

3,955
citations

101384

36
h-index

155451

55
g-index

131
all docs

131
docs citations

131
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting spontaneous combustion of coal in underground coal mines by index gases: A review. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 57, 208-222.	1.7	147
2	Experimental investigation on the formation and transport mechanism of outburst coal-gas flow: Implications for the role of gas desorption in the development stage of outburst. <i>International Journal of Coal Geology</i> , 2018, 194, 45-58.	1.9	128
3	Methane and CO ₂ sorption hysteresis on coal: A critical review. <i>International Journal of Coal Geology</i> , 2014, 132, 60-80.	1.9	125
4	Adiabatic oxidation study on the propensity of pulverised coals to spontaneous combustion. <i>Fuel</i> , 1999, 78, 1611-1620.	3.4	122
5	CFD modelling of ventilation and dust flow behaviour above an underground bin and the design of an innovative dust mitigation system. <i>Tunnelling and Underground Space Technology</i> , 2014, 41, 241-254.	3.0	114
6	A sequential approach to control gas for the extraction of multi-gassy coal seams from traditional gas well drainage to mining-induced stress relief. <i>Applied Energy</i> , 2014, 131, 67-78.	5.1	111
7	Implementation of underground longhole directional drilling technology for greenhouse gas mitigation in Chinese coal mines. <i>International Journal of Greenhouse Gas Control</i> , 2012, 11, 290-303.	2.3	109
8	Improved apparent permeability models of gas flow in coal with Klinkenberg effect. <i>Fuel</i> , 2014, 128, 53-61.	3.4	106
9	A review on numerical solutions to self-heating of coal stockpile: Mechanism, theoretical basis, and variable study. <i>Fuel</i> , 2016, 182, 80-109.	3.4	94
10	Treatment of coal seam gas produced water for beneficial use in Australia: A review of best practices. <i>Desalination and Water Treatment</i> , 2011, 32, 316-323.	1.0	87
11	Cyclic N ₂ injection for enhanced coal seam gas recovery: A laboratory study. <i>Energy</i> , 2019, 188, 116115.	4.5	87
12	Experimental investigation of N ₂ injection to enhance gas drainage in CO ₂ -rich low permeable seam. <i>Fuel</i> , 2018, 215, 665-674.	3.4	84
13	Numerical modelling of failure propagation in fully grouted rock bolts subjected to tensile load. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 71, 293-300.	2.6	83
14	Respirable dust pollution characteristics within an underground heading face driven with continuous miner – A CFD modelling approach. <i>Journal of Cleaner Production</i> , 2019, 217, 267-283.	4.6	75
15	Evolution and application of in-seam drilling for gas drainage. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 543-553.	4.6	73
16	A comparative study of dust control practices in Chinese and Australian longwall coal mines. <i>International Journal of Mining Science and Technology</i> , 2016, 26, 199-208.	4.6	68
17	Pulverization characteristics of coal from a strong outburst-prone coal seam and their impact on gas desorption and diffusion properties. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 867-878.	2.1	67
18	Determining the diffusion coefficient of gas diffusion in coal: Development of numerical solution. <i>Fuel</i> , 2017, 196, 47-58.	3.4	65

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19	Application of ventilation simulation to spontaneous combustion control in underground coal mine: A case study from Bulianta colliery. <i>International Journal of Mining Science and Technology</i> , 2018, 28, 231-242.	4.6	61
20	Role of Tectonic Coal in Coal and Gas Outburst Behavior During Coal Mining. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4619-4635.	2.6	58
21	Investigation of airflow and respirable dust flow behaviour above an underground bin. <i>Powder Technology</i> , 2013, 250, 103-114.	2.1	54
22	Proactive inertisation in longwall goaf for coal spontaneous combustion control-A CFD approach. <i>Safety Science</i> , 2019, 113, 445-460.	2.6	54
23	Model development and simulation study of the feasibility of enhancing gas drainage efficiency through nitrogen injection. <i>Fuel</i> , 2017, 194, 406-422.	3.4	53
24	The Thermal Properties of Nitrocellulose: From Thermal Decomposition to Thermal Explosion. <i>Combustion Science and Technology</i> , 2018, 190, 579-590.	1.2	48
25	Energy-limiting factor for coal and gas outburst occurrence in intact coal seam. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 729-742.	4.6	48
26	Analytical stress solution and mechanical properties for rock mass containing a hole with complex shape. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 103002.	2.1	48
27	Analytical approach in optimising selection of rebar bolts in preventing rock bolting failure. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 72, 16-25.	2.6	44
28	Adjacent seam pressure-relief gas drainage technique based on ground movement for initial mining phase of longwall face. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 77, 237-245.	2.6	44
29	Analytical study of steel bolt profile and its influence on bolt load transfer. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 60, 188-195.	2.6	42
30	Experimental study of flow field structure of interrupted pulsed water jet and breakage of hard rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 78, 253-261.	2.6	42
31	Groundwater impact of open cut coal mine and an assessment methodology: A case study in NSW. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 861-866.	4.6	42
32	A study of rock bolting failure modes. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 79-88.	4.6	41
33	Simulation investigation of N ₂ -injection enhanced gas drainage: Model development and identification of critical parameters. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 55, 30-41.	2.1	41
34	A numerical simulation study on mechanical behaviour of coal with bedding planes under coupled static and dynamic load. <i>International Journal of Mining Science and Technology</i> , 2018, 28, 791-797.	4.6	41
35	Transient CFD modelling of low-temperature spontaneous heating behaviour in multiple coal stockpiles with wind forced convection. <i>Fuel Processing Technology</i> , 2016, 149, 55-74.	3.7	38
36	Analysis of the Stress Wave Effect During Rock Breakage by Pulsating Jets. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 503-514.	2.6	38

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37	Novel hybrid FRP tubular columns with large deformation capacity: Concept and behaviour. <i>Composite Structures</i> , 2019, 212, 500-512.	3.1	38
38	Influence of Coal Particle Size on Coal Adsorption and Desorption Characteristics. <i>Archives of Mining Sciences</i> , 2014, 59, 807-820.	0.6	37
39	Coal seam water infusion for dust control: a technical review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4537-4554.	2.7	36
40	Improved dust management at a longwall top coal caving (LTCC) face – A CFD modelling approach. <i>Advanced Powder Technology</i> , 2018, 29, 2368-2379.	2.0	34
41	Influence of Temperature on Coal Sorption Characteristics and the Theory of Coal Surface Free Energy. <i>Procedia Engineering</i> , 2011, 26, 1430-1439.	1.2	33
42	Experimental observations of matrix swelling area propagation on permeability evolution using natural and reconstituted samples. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 680-688.	2.1	33
43	The Energy Principle of Coal and Gas Outbursts: Experimentally Evaluating the Role of Gas Desorption. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 11-30.	2.6	32
44	Acoustic emission, damage and cracking evolution of intact coal under compressive loads: Experimental and discrete element modelling. <i>Engineering Fracture Mechanics</i> , 2021, 252, 107690.	2.0	29
45	Gas ejection accident analysis in bed splitting under igneous sills and the associated control technologies: a case study in the Yangliu Mine, Huaibei Coalfield, China. <i>Natural Hazards</i> , 2014, 71, 109-134.	1.6	28
46	Influence of Large Syncline on In Situ Stress Field: A Case Study of the Kaiping Coalfield, China. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 4423-4440.	2.6	28
47	Proactive goaf inertisation for controlling longwall goaf heatings. <i>Procedia Earth and Planetary Science</i> , 2009, 1, 309-315.	0.6	27
48	Experimental investigation of the effect of grout with additive in improving ground support. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 85, 52-59.	2.6	27
49	Prediction of Coalbed Methane (CBM) Production Considering Bidisperse Diffusion: Model Development, Experimental Test, and Numerical Simulation. <i>Energy & Fuels</i> , 2017, 31, 5785-5797.	2.5	27
50	Experimental study of the adsorption-induced coal matrix swelling and its impact on ECBM. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 917-925.	1.1	27
51	A Theoretical and Experimental Study of Stress–Strain, Creep and Failure Mechanisms of Intact Coal. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5641-5658.	2.6	27
52	Introducing aggregate into grouting material and its influence on load transfer of the rock bolting system. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 325-328.	4.6	26
53	Creep behaviour and constitutive model of coal filled with gas. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 847-851.	4.6	26
54	Developing coal burst propensity index method for Australian coal mines. <i>International Journal of Mining Science and Technology</i> , 2018, 28, 783-790.	4.6	26

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55	Numerical investigations of methane flow characteristics on a longwall face Part I: Methane emission and base model results. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 43, 242-253.	2.1	25
56	Acid mine drainage and sewage impacted groundwater treatment by membrane distillation: Organic micropollutant and metal removal and membrane fouling. <i>Journal of Environmental Management</i> , 2021, 291, 112708.	3.8	25
57	Dust Controls and Monitoring Practices on Australian Longwalls. <i>Procedia Engineering</i> , 2011, 26, 1417-1429.	1.2	24
58	Influence of methane on the prediction index gases of coal spontaneous combustion: A case study in Xishan coalfield, China. <i>Fuel</i> , 2021, 289, 119852.	3.4	24
59	New insight into proactive goaf inertisation for spontaneous combustion management and control. <i>Chemical Engineering Research and Design</i> , 2022, 161, 739-757.	2.7	24
60	Calculation of the effect of Poisson's ratio in laboratory push and pull testing of resin-encapsulated bolts. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 64, 175-180.	2.6	23
61	A hybrid tubular standing support for underground mines: Compressive behaviour. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 215-224.	4.6	23
62	Behaviour of FRP-confined coal reject concrete columns under axial compression. <i>Composite Structures</i> , 2021, 262, 113621.	3.1	23
63	Dynamic response and fracture evolution of marble specimens containing rectangular cavities subjected to dynamic loading. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 7701-7716.	1.6	23
64	Investigations of Ventilation Airflow Characteristics on a Longwall Face—A Computational Approach. <i>Energies</i> , 2018, 11, 1564.	1.6	22
65	Estimation of average ejection velocity generated by rib burst under compression load. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 128, 104277.	2.6	20
66	Advanced directional drilling technology for gas drainage and exploration in Australian coal mines. <i>Procedia Engineering</i> , 2011, 26, 25-36.	1.2	19
67	Numerical investigations of methane flow characteristics on a longwall face Part II: Parametric studies. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 43, 254-267.	2.1	19
68	Numerical investigation of CO ₂ fringe behaviour on a longwall face and its control. <i>International Journal of Coal Geology</i> , 2018, 186, 80-96.	1.9	19
69	Size distribution measurement of coal fragments using digital imaging processing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 160, 107867.	2.5	19
70	Influence of Maximum Pressure on the Path of CO ₂ Desorption Isotherm on Coal. <i>Energy & Fuels</i> , 2014, 28, 7093-7096.	2.5	18
71	Field investigation of using water injection through in-seam gas drainage boreholes to control coal dust from the longwall face during the influence of abutment pressure. <i>International Journal of Mining, Reclamation and Environment</i> , 2016, 30, 48-63.	1.2	18
72	On factors affecting coalbed gas content measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 121, 47-56.	2.5	18

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73	Study of ambient temperature oxidation in low metamorphic coal and the oxidation mechanism. <i>Energy</i> , 2022, 252, 124039.	4.5	18
74	Research on the Characteristics of the Coal–Oxygen Reaction in a Lean-Oxygen Environment Caused by Methane. <i>Energy & Fuels</i> , 2019, 33, 9215-9223.	2.5	17
75	The Influence of Sorption Pressure on Gas Diffusion in Coal Particles: An Experimental Study. <i>Processes</i> , 2019, 7, 219.	1.3	17
76	Improved computational fluid dynamics modelling of coal spontaneous combustion control and gas management. <i>Fuel</i> , 2022, 324, 124456.	3.4	17
77	Keynote paper Mine gas drainage and outburst control in Australian underground coal mines. <i>Procedia Engineering</i> , 2011, 26, 84-92.	1.2	16
78	Nitrogen Injection To Flush Coal Seam Gas Out Of Coal: An Experimental Study. <i>Archives of Mining Sciences</i> , 2015, 60, 1013-1028.	0.6	16
79	Influences of temperature and moisture on coal sorption characteristics of a bituminous coal from the Sydney Basin, Australia. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 8, 62.	0.1	15
80	Effects of particle size and adsorption pressure on methane gas desorption and diffusion in coal. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	15
81	Behaviour of FRP-confined coal rejects based backfill material under compression. <i>Construction and Building Materials</i> , 2021, 268, 121171.	3.2	15
82	Directional drilling in unstable environments. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 397-402.	4.6	14
83	Numerical Simulation of the Shear Behavior of Rock Joints Filled with Unsaturated Soil. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	14
84	Effect of particle size on gas energy release for tectonic coal during outburst process. <i>Fuel</i> , 2022, 307, 121888.	3.4	14
85	A mechanical model for conebolts. <i>Computers and Geotechnics</i> , 2017, 83, 142-151.	2.3	13
86	Experimental study of coal burst risk prediction using fractal dimension analysis of AE spatial distribution. <i>Journal of Applied Geophysics</i> , 2020, 177, 104025.	0.9	13
87	Standing support incorporating FRP and high water-content material for underground space. <i>Tunnelling and Underground Space Technology</i> , 2021, 110, 103809.	3.0	13
88	Experimental Investigation on the Mechanism of Coal and Gas Outburst: Novel Insights on the Formation and Development of Coal Spallation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5807-5825.	2.6	13
89	Coal sorption characteristics and coal surface tension. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 8, 336.	0.1	12
90	Laboratory quantification of coal permeability reduction effect during carbon dioxide injection process. <i>Chemical Engineering Research and Design</i> , 2021, 148, 638-649.	2.7	12

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91	Undesorbable residual gas in coal seams and its influence on gas drainage. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 763-769.	4.6	11
92	The influence of soluble components on spontaneous combustion risk of sawdust samples. <i>Thermochimica Acta</i> , 2018, 670, 219-225.	1.2	11
93	A study on the thermal decomposition temperature (TDT) and critical ambient temperature (CAT) of cotton. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1617-1625.	2.0	10
94	Overburden stability of an inclined backfill slope in the context of the nonlinear elastic mechanical properties of the backfill body. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	10
95	Analysis of Energy Accumulation and Dissipation of Coal Bursts. <i>Energies</i> , 2018, 11, 1816.	1.6	9
96	Study of CO Sources and Early-warning Concentration of Spontaneous Combustion at Air Return Corner in Fully Mechanized Mining Faces. <i>Combustion Science and Technology</i> , 2021, 193, 1587-1604.	1.2	9
97	Influence of void space on microscopic behavior of fluid flow in rock joints. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 335-340.	4.6	8
98	Triaxial permeability testing and microstructure study of hard-to-drain coal from Sydney Basin, Australia. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 8, 432.	0.1	8
99	Inertisation options for BG method and optimisation using CFD modelling. <i>International Journal of Mining Science and Technology</i> , 2015, 25, 401-405.	4.6	8
100	New Insights into Failure Behaviors of Tectonic Coal Under Triaxial Conditions Using Reconstituted Coal Specimens. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 1361-1374.	2.6	8
101	Experimental and numerical investigation of high-yield grout ore pass plugs to resist impact loads. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 70, 1-15.	2.6	7
102	A new fracture model for the prediction of longwall caving characteristics. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 369-372.	4.6	7
103	Study on the Intrinsic Exothermic Reaction of Coal with Oxygen at Low Temperature by DSC Profile Subtraction Method. <i>Combustion Science and Technology</i> , 2020, , 1-18.	1.2	7
104	Numerical investigations of airflow patterns on a longwall face. <i>International Journal of Oil, Gas and Coal Technology</i> , 2020, 24, 321.	0.1	6
105	Potential infrasonic tremors in coal seam systems: Implications for the prediction of coal and gas outbursts. <i>Fuel</i> , 2022, 326, 125000.	3.4	6
106	Evaluation of Coal Seam Gas Drainability for Outburst-Prone and High-CO ₂ -Containing Coal Seam. <i>Geofluids</i> , 2019, 2019, 1-14.	0.3	5
107	Fragmentation Characteristic and Energy Dissipation of Coal under Impact Load. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	5
108	Analytical Stress Solution and Numerical Mechanical Behavior of Rock Mass Containing an Opening under Different Confining Stress Conditions. <i>Mathematics</i> , 2021, 9, 2462.	1.1	5

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109	A study of laboratory testing and calculation methods for coal sorption isotherms. Science in China Series A: Mathematics, 2013, 19, 193-202.	0.2	4
110	Discretized pressure Poisson algorithm for the steady incompressible flow on a nonstaggered grid. Numerical Heat Transfer, Part B: Fundamentals, 2017, 71, 549-559.	0.6	4
111	Precise Identification of Coal Thickness by Channel Wave Based on a Hybrid Algorithm. Applied Sciences (Switzerland), 2019, 9, 1493.	1.3	4
112	Analysis of the Coal and Gas Outburst Mechanism from the Perspective of Tectonic Movement. Geofluids, 2021, 2021, 1-18.	0.3	4
113	Evidence for universal rupture behavior during coal and gas outbursts. Fuel, 2022, 324, 124592.	3.4	4
114	Comparison of thermal hazards of sodium dithionite and thiourea dioxide from thermal analysis (DSC-TG), small-scale self-heating experiments and FTIR smoke gas analysis. Fire Safety Journal, 2017, 92, 91-97.	1.4	3
115	The spontaneous combustion mechanism of sawdust from the aspect of biochemical components. Cellulose, 2019, 26, 9045-9055.	2.4	3
116	The Influence of Confining Stresses on Rock Fragmentation, Thrust Force, and Penetration Energy in Sandstone Indentation Tests Using Disc Cutters. Advances in Civil Engineering, 2021, 2021, 1-13.	0.4	3
117	Stress Distribution and Mechanical Behaviour of Rock Mass Containing Two Openings Underground: Analytical and Numerical Studies. Geofluids, 2021, 2021, 1-16.	0.3	3
118	Gas reservoir simulation for enhanced gas recovery with nitrogen injection in low permeability coal seams. International Journal of Oil, Gas and Coal Technology, 2015, 10, 272.	0.1	2
119	Numerical study on the fracture characteristics and failure mode of hard coal under coupled static and dynamic loads. E3S Web of Conferences, 2020, 192, 04002.	0.2	2
120	Large excavations and their effect on displacement of land boundaries. International Journal of Mining Science and Technology, 2012, 22, 633-637.	4.6	1
121	Investigation into the Propensity of Coal for Spontaneous Heating in Stockpiles. Journal of the Institution of Engineers (India): Series D, 2018, 99, 225-233.	0.6	1
122	Hybrid roof standing supports in underground mining: concept and behaviour. Geomechanics and Geoengineering, 0, , 1-15.	0.9	1
123	CFD Modelling of Ventilation, Dust and Gas Flow Dispersion Patterns on a Longwall Face. , 2019, , 198-208.		1
124	Applications of Water Infusion for Dust Control in Underground Coal Minesâ€”A Critical Review. , 2019, , 219-230.		1
125	CALCULATION OF CRITICAL PARAMETERS FOR SPONTANEOUS COMBUSTION FOR SOME COMPLEX GEOMETRIES USING AN INDIRECT NUMERICAL METHOD. ANZIAM Journal, 2018, 59, 402-412.	0.3	0
126	Coal Formation and Metamorphism. , 2021, , 41-76.		0

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127	Experimental and Simulation Investigation of N ₂ Enhanced Gas Drainage in Low Permeable Coal Seam. , 2019, , 335-346.		0
128	Coupled CFD-DEM modelling of mine dust dispersion in underground roadway. , 2019, , 612-619.		0