

# 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	Effect of particle size on gas energy release for tectonic coal during outburst process. Fuel, 2022, 307, 121888.	3.4	14
2	New Insights into Failure Behaviors of Tectonic Coal Under Triaxial Conditions Using Reconstituted Coal Specimens. Rock Mechanics and Rock Engineering, 2022, 55, 1361-1374.	2.6	8
3	New insight into proactive goaf inertisation for spontaneous combustion management and control. Chemical Engineering Research and Design, 2022, 161, 739-757.	2.7	24
4	Study of ambient temperature oxidation in low metamorphic coal and the oxidation mechanism. Energy, 2022, 252, 124039.	4.5	18
5	Improved computational fluid dynamics modelling of coal spontaneous combustion control and gas management. Fuel, 2022, 324, 124456.	3.4	17
6	Evidence for universal rupture behavior during coal and gas outbursts. Fuel, 2022, 324, 124592.	3.4	4
7	Potential infrasonic tremors in coal seam systems: Implications for the prediction of coal and gas outbursts. Fuel, 2022, 326, 125000.	3.4	6
8	The Energy Principle of Coal and Gas Outbursts: Experimentally Evaluating the Role of Gas Desorption. Rock Mechanics and Rock Engineering, 2021, 54, 11-30.	2.6	32
9	Behaviour of FRP-confined coal rejects based backfill material under compression. Construction and Building Materials, 2021, 268, 121171.	3.2	15
10	Influence of methane on the prediction index gases of coal spontaneous combustion: A case study in Xishan coalfield, China. Fuel, 2021, 289, 119852.	3.4	24
11	Study of CO Sources and Early-warning Concentration of Spontaneous Combustion at Air Return Corner in Fully Mechanized Mining Faces. Combustion Science and Technology, 2021, 193, 1587-1604.	1.2	9
12	Coal Formation and Metamorphism. , 2021, , 41-76.		0
13	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
14	A hybrid tubular standing support for underground mines: Compressive behaviour. International Journal of Mining Science and Technology, 2021, 31, 215-224.	4.6	23
15	Laboratory quantification of coal permeability reduction effect during carbon dioxide injection process. Chemical Engineering Research and Design, 2021, 148, 638-649.	2.7	12
16	Behaviour of FRP-confined coal reject concrete columns under axial compression. Composite Structures, 2021, 262, 113621.	3.1	23
17	Standing support incorporating FRP and high water-content material for underground space. Tunnelling and Underground Space Technology, 2021, 110, 103809.	3.0	13
18	Fragmentation Characteristic and Energy Dissipation of Coal under Impact Load. International Journal of Geomechanics, 2021, 21, .	1.3	5

#	ARTICLE	IF	CITATIONS
19	Energy-limiting factor for coal and gas outburst occurrence in intact coal seam. International Journal of Mining Science and Technology, 2021, 31, 729-742.	4.6	48
20	Acoustic emission, damage and cracking evolution of intact coal under compressive loads: Experimental and discrete element modelling. Engineering Fracture Mechanics, 2021, 252, 107690.	2.0	29
21	Analysis of the Coal and Gas Outburst Mechanism from the Perspective of Tectonic Movement. Geofluids, 2021, 2021, 1-18.	0.3	4
22	Experimental Investigation on the Mechanism of Coal and Gas Outburst: Novel Insights on the Formation and Development of Coal Spallation. Rock Mechanics and Rock Engineering, 2021, 54, 5807-5825.	2.6	13
23	Acid mine drainage and sewage impacted groundwater treatment by membrane distillation: Organic micropollutant and metal removal and membrane fouling. Journal of Environmental Management, 2021, 291, 112708.	3.8	25
24	Dynamic response and fracture evolution of marble specimens containing rectangular cavities subjected to dynamic loading. Bulletin of Engineering Geology and the Environment, 2021, 80, 7701-7716.	1.6	23
25	Analytical stress solution and mechanical properties for rock mass containing a hole with complex shape. Theoretical and Applied Fracture Mechanics, 2021, 114, 103002.	2.1	48
26	Analytical Stress Solution and Numerical Mechanical Behavior of Rock Mass Containing an Opening under Different Confining Stress Conditions. Mathematics, 2021, 9, 2462.	1.1	5
27	Stress Distribution and Mechanical Behaviour of Rock Mass Containing Two Openings Underground: Analytical and Numerical Studies. Geofluids, 2021, 2021, 1-16.	0.3	3
28	Numerical investigations of airflow patterns on a longwall face. International Journal of Oil, Gas and Coal Technology, 2020, 24, 321.	0.1	6
29	A Theoretical and Experimental Study of Stress-Strain, Creep and Failure Mechanisms of Intact Coal. Rock Mechanics and Rock Engineering, 2020, 53, 5641-5658.	2.6	27
30	Size distribution measurement of coal fragments using digital imaging processing. Measurement: Journal of the International Measurement Confederation, 2020, 160, 107867.	2.5	19
31	Experimental study of coal burst risk prediction using fractal dimension analysis of AE spatial distribution. Journal of Applied Geophysics, 2020, 177, 104025.	0.9	13
32	Study on the Intrinsic Exothermic Reaction of Coal with Oxygen at Low Temperature by DSC Profile Subtraction Method. Combustion Science and Technology, 2020, , 1-18.	1.2	7
33	Estimation of average ejection velocity generated by rib burst under compression load. International Journal of Rock Mechanics and Minings Sciences, 2020, 128, 104277.	2.6	20
34	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
35	Research on the Characteristics of the Coal-Oxygen Reaction in a Lean-Oxygen Environment Caused by Methane. Energy & Fuels, 2019, 33, 9215-9223.	2.5	17
36	Cyclic N2 injection for enhanced coal seam gas recovery: A laboratory study. Energy, 2019, 188, 116115.	4.5	87

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37	Evaluation of Coal Seam Gas Drainability for Outburst-Prone and High-CO <sub>2</sub> -Containing Coal Seam. <i>Geofluids</i> , 2019, 2019, 1-14.	0.3	5
38	The spontaneous combustion mechanism of sawdust from the aspect of biochemical components. <i>Cellulose</i> , 2019, 26, 9045-9055.	2.4	3
39	Novel hybrid FRP tubular columns with large deformation capacity: Concept and behaviour. <i>Composite Structures</i> , 2019, 212, 500-512.	3.1	38
40	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
41	Precise Identification of Coal Thickness by Channel Wave Based on a Hybrid Algorithm. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1493.	1.3	4
42	The Influence of Sorption Pressure on Gas Diffusion in Coal Particles: An Experimental Study. <i>Processes</i> , 2019, 7, 219.	1.3	17
43	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
44	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
45	Overburden stability of an inclined backfill stope in the context of the nonlinear elastic mechanical properties of the backfill body. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	10
46	Coal seam water infusion for dust control: a technical review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4537-4554.	2.7	36
47	Proactive inertisation in longwall goaf for coal spontaneous combustion control-A CFD approach. <i>Safety Science</i> , 2019, 113, 445-460.	2.6	54
48	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
49	CFD Modelling of Ventilation, Dust and Gas Flow Dispersion Patterns on a Longwall Face. , 2019, , 198-208.		1
50	Applications of Water Infusion for Dust Control in Underground Coal Mines – A Critical Review. , 2019, , 219-230.		1
51	Experimental and Simulation Investigation of N <sub>2</sub> Enhanced Gas Drainage in Low Permeable Coal Seam. , 2019, , 335-346.		0
52	Coupled CFD-DEM modelling of mine dust dispersion in underground roadway. , 2019, , 612-619.		0
53	CALCULATION OF CRITICAL PARAMETERS FOR SPONTANEOUS COMBUSTION FOR SOME COMPLEX GEOMETRIES USING AN INDIRECT NUMERICAL METHOD. <i>ANZIAM Journal</i> , 2018, 59, 402-412.	0.3	0
54	Numerical investigation of CO <sub>2</sub> fringe behaviour on a longwall face and its control. <i>International Journal of Coal Geology</i> , 2018, 186, 80-96.	1.9	19

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55	Experimental investigation of N <sub>2</sub> injection to enhance gas drainage in CO <sub>2</sub> -rich low permeable seam. <i>Fuel</i> , 2018, 215, 665-674.	3.4	84
56	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
57	Simulation investigation of N <sub>2</sub> -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
58	On factors affecting coalbed gas content measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 121, 47-56.	2.5	18
59	The Thermal Properties of Nitrocellulose: From Thermal Decomposition to Thermal Explosion. <i>Combustion Science and Technology</i> , 2018, 190, 579-590.	1.2	48
60	The influence of soluble components on spontaneous combustion risk of sawdust samples. <i>Thermochimica Acta</i> , 2018, 670, 219-225.	1.2	11
61	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
62	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
63	Analysis of Energy Accumulation and Dissipation of Coal Bursts. <i>Energies</i> , 2018, 11, 1816.	1.6	9
64	Investigations of Ventilation Airflow Characteristics on a Longwall Face—A Computational Approach. <i>Energies</i> , 2018, 11, 1564.	1.6	22
65	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
66	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
67	Numerical Simulation of the Shear Behavior of Rock Joints Filled with Unsaturated Soil. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	14
68	Investigation into the Propensity of Coal for Spontaneous Heating in Stockpiles. <i>Journal of the Institution of Engineers (India): Series D</i> , 2018, 99, 225-233.	0.6	1
69	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
70	A mechanical model for conebolts. <i>Computers and Geotechnics</i> , 2017, 83, 142-151.	2.3	13
71	Determining the diffusion coefficient of gas diffusion in coal: Development of numerical solution. <i>Fuel</i> , 2017, 196, 47-58.	3.4	65
72	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

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73	Prediction of Coalbed Methane (CBM) Production Considering Bidisperse Diffusion: Model Development, Experimental Test, and Numerical Simulation. <i>Energy &amp; Fuels</i> , 2017, 31, 5785-5797.	2.5	27
74	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
75	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. <i>Fire Safety Journal</i> , 2017, 92, 91-97.	1.4	3
76	Discretized pressure Poisson algorithm for the steady incompressible flow on a nonstaggered grid. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 71, 549-559.	0.6	4
77	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
78	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
79	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
80	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
81	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
82	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
83	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
84	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
85	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
86	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
87	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
88	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
89	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
90	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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91	Nitrogen Injection To Flush Coal Seam Gas Out Of Coal: An Experimental Study. Archives of Mining Sciences, 2015, 60, 1013-1028.	0.6	16
92	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
93	Adjacent seam pressure-relief gas drainage technique based on ground movement for initial mining phase of longwall face. International Journal of Rock Mechanics and Minings Sciences, 2015, 77, 237-245.	2.6	44
94	Inertisation options for BG method and optimisation using CFD modelling. International Journal of Mining Science and Technology, 2015, 25, 401-405.	4.6	8
95	Experimental study of flow field structure of interrupted pulsed water jet and breakage of hard rock. International Journal of Rock Mechanics and Minings Sciences, 2015, 78, 253-261.	2.6	42
96	Influence of Maximum Pressure on the Path of CO <sub>2</sub> Desorption Isotherm on Coal. Energy & Fuels, 2014, 28, 7093-7096.	2.5	18
97	Influence of Coal Particle Size on Coal Adsorption and Desorption Characteristics. Archives of Mining Sciences, 2014, 59, 807-820.	0.6	37
98	Introducing aggregate into grouting material and its influence on load transfer of the rock bolting system. International Journal of Mining Science and Technology, 2014, 24, 325-328.	4.6	26
99	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. Natural Hazards, 2014, 71, 109-134.	1.6	28
100	CFD modelling of ventilation and dust flow behaviour above an underground bin and the design of an innovative dust mitigation system. Tunnelling and Underground Space Technology, 2014, 41, 241-254.	3.0	114
101	Experimental and numerical investigation of high-yield grout ore pass plugs to resist impact loads. International Journal of Rock Mechanics and Minings Sciences, 2014, 70, 1-15.	2.6	7
102	Directional drilling in unstable environments. International Journal of Mining Science and Technology, 2014, 24, 397-402.	4.6	14
103	Influence of void space on microscopic behavior of fluid flow in rock joints. International Journal of Mining Science and Technology, 2014, 24, 335-340.	4.6	8
104	Analytical approach in optimising selection of rebar bolts in preventing rock bolting failure. International Journal of Rock Mechanics and Minings Sciences, 2014, 72, 16-25.	2.6	44
105	Methane and CO <sub>2</sub> sorption hysteresis on coal: A critical review. International Journal of Coal Geology, 2014, 132, 60-80.	1.9	125
106	Numerical modelling of failure propagation in fully grouted rock bolts subjected to tensile load. International Journal of Rock Mechanics and Minings Sciences, 2014, 71, 293-300.	2.6	83
107	A sequential approach to control gas for the extraction of multi-gassy coal seams from traditional gas well drainage to mining-induced stress relief. Applied Energy, 2014, 131, 67-78.	5.1	111
108	A new fracture model for the prediction of longwall caving characteristics. International Journal of Mining Science and Technology, 2014, 24, 369-372.	4.6	7

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109	Improved apparent permeability models of gas flow in coal with Klinkenberg effect. <i>Fuel</i> , 2014, 128, 53-61.	3.4	106
110	Coal sorption characteristics and coal surface tension. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 8, 336.	0.1	12
111	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
112	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
113	A study of laboratory testing and calculation methods for coal sorption isotherms. <i>Science in China Series A: Mathematics</i> , 2013, 19, 193-202.	0.2	4
114	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
115	Investigation of airflow and respirable dust flow behaviour above an underground bin. <i>Powder Technology</i> , 2013, 250, 103-114.	2.1	54
116	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
117	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
118	A study of rock bolting failure modes. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 79-88.	4.6	41
119	Large excavations and their effect on displacement of land boundaries. <i>International Journal of Mining Science and Technology</i> , 2012, 22, 633-637.	4.6	1
120	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
121	Advanced directional drilling technology for gas drainage and exploration in Australian coal mines. <i>Procedia Engineering</i> , 2011, 26, 25-36.	1.2	19
122	Keynote paper Mine gas drainage and outburst control in Australian underground coal mines. <i>Procedia Engineering</i> , 2011, 26, 84-92.	1.2	16
123	Dust Controls and Monitoring Practices on Australian Longwalls. <i>Procedia Engineering</i> , 2011, 26, 1417-1429.	1.2	24
124	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
125	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
126	Proactive goaf inertisation for controlling longwall goaf heatings. <i>Procedia Earth and Planetary Science</i> , 2009, 1, 309-315.	0.6	27



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127	Adiabatic oxidation study on the propensity of pulverised coals to spontaneous combustion. Fuel, 1999, 78, 1611-1620.	3.4	122
128	Hybrid roof standing supports in underground mining: concept and behaviour. Geomechanics and Geoengineering, 0, , 1-15.	0.9	1