Minggao Yu

List of Publications by Year
in descending order

70 papers	1,899 citations	159585 30 h-index	289244 40 g-index
70 all docs	70 docs citations	70 times ranked	527 citing authors

#	Article	IF	Citations
1	Experimental study on suppression of methane explosion by porous media and ultra-fine water mist. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 1751-1764.	2.3	10
2	An Investigation on the Bursting Liability of Oxidized Coal and the Coupling Mechanism of Rock Burst and Spontaneous Combustion. Rock Mechanics and Rock Engineering, 2022, 55, 317-340.	5.4	3
3	Numerical investigation on the effects of reaction orders on the flame propagation dynamic behaviors for premixed gas in a closed tube. International Journal of Hydrogen Energy, 2022, 47, 8037-8047.	7.1	3
4	Application of large eddy simulation in methane-air explosion prediction using thickening flame approach. Chemical Engineering Research and Design, 2022, 159, 662-673.	5.6	11
5	Effect of temperature on the evolution and distribution for particle size of loose broken coal during the uniaxial confined compression process. Fuel, 2022, 318, 123592.	6.4	11
6	Flame propagation mode transition of premixed syngas-air mixtures in a closed duct. Fuel, 2022, 318, 123649.	6.4	12
7	Experimental investigation on the effect of obstacle position on the explosion behaviors of the non-uniform methane/air mixture. Fuel, 2022, 320, 123989.	6.4	22
8	Effects of equivalence ratio and fuel composition on the explosion characteristics of syngas/air mixtures at sub-atmospheric pressures. Journal of Loss Prevention in the Process Industries, 2022, 78, 104819.	3.3	7
9	Flame propagation inhibition study on methane/air explosion using CO2 twin-fluid water mist containing potassium salt additives. Journal of Loss Prevention in the Process Industries, 2022, 78, 104817.	3.3	5
10	Explosion behavior of non-uniform methane/air mixture in an obstructed duct with different blockage ratios. Energy, 2022, 255, 124603.	8.8	21
11	Coal pillarâ€™s breaking and fracture development mechanism and numerical simulation. Thermal Science, 2022, 26, 2439-2446.	1.1	3
12	Experimental and numerical study on the explosion suppression of hydrogen/dimethyl ether/methane/air mixtures by water mist containing NaHCO3. Fuel, 2022, 328, 125235.	6.4	13
13	Spurting NH₄H₂PO₄ Powder to Prevent the Propagation of Gas Explosion along the Duct. Combustion Science and Technology, 2021, 193, 2534-2552.	2.3	5
14	Effect of Variable Cross-section Duct on Flame Propagation Characteristics of Premixed hydrogen/methane/air Combustible Gas. Combustion Science and Technology, 2021, 193, 1425-1443.	2.3	15
15	Effect of equivalence ratio and ignition location on premixed syngas-air explosion in a half-open duct. Fuel, 2021, 288, 119724.	6.4	21
16	Experimental Study on the Effect of Chemical Composite Additives on Heat Release Characteristics of Coal Oxidation Spontaneous Combustion. Combustion Science and Technology, 2021, 193, 561-576.	2.3	8
17	Evolution Characteristics of Bulking Factor in the Multi-field Loading of Broken Coal: An Experimental Study. Rock Mechanics and Rock Engineering, 2021, 54, 1481-1499.	5.4	17
18	Experimental study on the premixed syngas-air explosion in duct with both ends open. International Journal of Hydrogen Energy, 2021, 46, 11004-11014.	7.1	14

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19	An experimental study on the oscillation of the propagating syngas-air flame in a duct. International Journal of Hydrogen Energy, 2021, 46, 22234-22243.	7.1	10
20	Effect of hydrogen enrichment on the laminar burning characteristics of dimethyl-ether/methane fuel: Experimental and modeling study. Fuel, 2021, 305, 121475.	6.4	16
21	Suppression of CO2 and H2O on the cellular instability of premixed methane/air flame. Fuel, 2020, 264, 116862.	6.4	35
22	On the propagation dynamics of lean H2/CO/air premixed flame. International Journal of Hydrogen Energy, 2020, 45, 7210-7222.	7.1	19
23	Study on the propagation characteristics of hydrogen/methane/air premixed flames in variable cross-section ducts. Chemical Engineering Research and Design, 2020, 135, 135-143.	5.6	36
24	Characteristics for Oxygen-Lean Combustion and Residual Thermodynamics in Coalfield-Fire Zones within Axial Pressure. ACS Omega, 2020, 5, 22502-22512.	3.5	6
25	Effects of obstacle position and hydrogen volume fraction on premixed syngas-air flame acceleration. International Journal of Hydrogen Energy, 2020, 45, 29518-29532.	7.1	37
26	An experimental study on premixed syngas/air flame propagating across an obstacle in closed duct. Fuel, 2020, 267, 117200.	6.4	48
27	Research on the Deformation Characteristics and Support Technology of a Bottom Gas Extraction Roadway under Repeated Interference. Advances in Civil Engineering, 2019, 2019, 1-14.	0.7	3
28	Study on explosion characteristics of premixed hydrogen/biogas/air mixture in a duct. International Journal of Hydrogen Energy, 2019, 44, 27159-27173.	7.1	33
29	Effect of N2 and CO2 on explosion behavior of syngas/air mixtures in a closed duct. International Journal of Hydrogen Energy, 2019, 44, 28044-28055.	7.1	35
30	Synergistic inhibition effect on the self-acceleration characteristics in the initial stage of methane/air explosion by CO₂ and ultrafine water mist. RSC Advances, 2019, 9, 13940-13948.	3.6	6
31	Synergistic inhibition effect on methane/air explosions by N2-twin-fluid water mist containing sodium chloride additive. Fuel, 2019, 253, 361-368.	6.4	40
32	Evolution of Broken Coal Permeability Under the Condition of Stress, Temperature, Moisture Content, and Pore Pressure. Rock Mechanics and Rock Engineering, 2019, 52, 2803-2814.	5.4	27
33	A comparative investigation of premixed flame propagation behavior of syngas-air mixtures in closed and half-open ducts. Energy, 2019, 178, 436-446.	8.8	52
34	Experimental study on explosion characteristics of syngas with different ignition positions and hydrogen fraction. International Journal of Hydrogen Energy, 2019, 44, 15553-15564.	7.1	55
35	Acoustic emission monitoring technology for coal and gas outburst. Energy Science and Engineering, 2019, 7, 443-456.	4.0	34
36	Preventing the propagation of gas explosion in ducts using spurted nitrogen. Chemical Engineering Research and Design, 2019, 123, 11-23.	5.6	44

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37	Effect of side vent size on a methane/air explosion in an end-vented duct containing an obstacle. Experimental Thermal and Fluid Science, 2019, 101, 141-150.	2.7	28
38	An experimental investigation into the behavior of premixed flames of hydrogen/carbon monoxide/air mixtures in a half-open duct. Fuel, 2019, 237, 619-629.	6.4	56
39	Large eddy simulation of premixed hydrogen/methane/air flame propagation in a closed duct. International Journal of Hydrogen Energy, 2018, 43, 3871-3884.	7.1	48
40	Influence of side venting position on methane/air explosion characteristics in an end-vented duct containing an obstacle. Experimental Thermal and Fluid Science, 2018, 92, 202-210.	2.7	33
41	Experimental study of premixed syngas/air flame propagation in a half-open duct. Fuel, 2018, 225, 192-202.	6.4	58
42	Effect of side venting areas on the methane/air explosion characteristics in a pipeline. Journal of Loss Prevention in the Process Industries, 2018, 54, 123-130.	3.3	37
43	Comparative study of the propagation of methane/air and hydrogen/air flames in a duct using large eddy simulation. Chemical Engineering Research and Design, 2018, 120, 45-56.	5.6	52
44	Influence of obstacle blockage on methane/air explosion characteristics affected by side venting in a duct. Journal of Loss Prevention in the Process Industries, 2018, 54, 281-288.	3.3	36
45	Experimental study of premixed syngas/air flame deflagration in a closed duct. International Journal of Hydrogen Energy, 2018, 43, 13676-13686.	7.1	65
46	Experimental study on premixed flame propagation of hydrogen/methane/air deflagration in closed ducts. International Journal of Hydrogen Energy, 2017, 42, 5426-5438.	7.1	69
47	Suppression of methane/air explosion in pipeline by water mist. Journal of Loss Prevention in the Process Industries, 2017, 49, 791-796.	3.3	24
48	Experimental Investigation on the Permeability Evolution of Compacted Broken Coal. Transport in Porous Media, 2017, 116, 847-868.	2.6	30
49	Influence on the methane/air explosion characteristics of the side venting position in a pipeline. Chemical Engineering Research and Design, 2017, 111, 292-299.	5.6	51
50	Effects of hydrogen addition on methane-air deflagration in obstructed chamber. Experimental Thermal and Fluid Science, 2017, 80, 270-280.	2.7	32
51	The Characteristics of Methane Combustion Suppression by Water Mist and Its Engineering Applications. Energies, 2017, 10, 1566.	3.1	9
52	Combined effects of obstacle position and equivalence ratio on overpressure of premixed hydrogenâ€“air explosion. International Journal of Hydrogen Energy, 2016, 41, 17740-17749.	7.1	83
53	Suppressing methane explosion overpressure using a charged water mist containing a NaCl additive. Journal of Natural Gas Science and Engineering, 2016, 29, 21-29.	4.4	32
54	The influence of the charge-to-mass ratio of the charged water mist on a methane explosion. Journal of Loss Prevention in the Process Industries, 2016, 41, 68-76.	3.3	23

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55	Gas explosion flame propagation over various hollow-square obstacles. Journal of Natural Gas Science and Engineering, 2016, 30, 221-227.	4.4	64
56	Effects of hydrogen addition on propagation characteristics of premixed methane/air flames. Journal of Loss Prevention in the Process Industries, 2015, 34, 1-9.	3.3	52
57	Scale effects on premixed flame propagation of hydrogen/methane deflagration. International Journal of Hydrogen Energy, 2015, 40, 13121-13133.	7.1	55
58	Effect of bedding structural diversity of coal on permeability evolution and gas disasters control with coal mining. Natural Hazards, 2014, 73, 531-546.	3.4	49
59	Porous media quenching behaviors of gas deflagration in the presence of obstacles. Experimental Thermal and Fluid Science, 2013, 50, 37-44.	2.7	57
60	Effects of cross-wise obstacle position on methaneâ€“air deflagration characteristics. Journal of Loss Prevention in the Process Industries, 2013, 26, 1335-1340.	3.3	45
61	Prediction of nitrogen oxides from coal combustion by using response surface methodology. , 2012, , .		2
62	Large eddy simulation of methaneâ€“air deflagration in an obstructed chamber using different combustion models. Journal of Loss Prevention in the Process Industries, 2012, 25, 730-738.	3.3	41
63	Optimization of NO<inf>x</inf> emission from coal combustion process using pattern search. , 2011, , .		0
64	Estimation of explosion limits of gas mixture using a single spread GRNN. , 2011, , .		1
65	Reducing NO<inf>x</inf> emission from a coal-fired boiler based on regression and optimization. , 2010, , .		1
66	Use of differential evolution in low NO<inf>x</inf> combustion optimization of a coal-fired boiler. , 2010, , .		3
67	Prediction of Explosion Limits of Multi-Component Gas Mixture Using LS-SVR. , 2010, , .		2
68	Support Vector Regression and Ant Colony Optimization for Combustion Performance of Boilers. , 2008, , .		5
69	Improved Prediction of Nitrogen Oxides Using GRNN with K-Means Clustering and EDA. , 2008, , .		5
70	Monitoring NOx Emissions from Coal Fired Boilers Using Generalized Regression Neural Network. , 2008, , .		14