

Minggao Yu

List of Publications by Year in descending order

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Version: 2024-02-01

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	Combined effects of obstacle position and equivalence ratio on overpressure of premixed hydrogen-air explosion. International Journal of Hydrogen Energy, 2016, 41, 17740-17749.	7.1	83
2	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
3	Experimental study of premixed syngas/air flame deflagration in a closed duct. International Journal of Hydrogen Energy, 2018, 43, 13676-13686.	7.1	65
4	Gas explosion flame propagation over various hollow-square obstacles. Journal of Natural Gas Science and Engineering, 2016, 30, 221-227.	4.4	64
5	Experimental study of premixed syngas/air flame propagation in a half-open duct. Fuel, 2018, 225, 192-202.	6.4	58
6	Porous media quenching behaviors of gas deflagration in the presence of obstacles. Experimental Thermal and Fluid Science, 2013, 50, 37-44.	2.7	57
7	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
8	Scale effects on premixed flame propagation of hydrogen/methane deflagration. International Journal of Hydrogen Energy, 2015, 40, 13121-13133.	7.1	55
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	An experimental study on premixed syngas/air flame propagating across an obstacle in closed duct. Fuel, 2020, 267, 117200.	6.4	48
17	Effects of cross-wise obstacle position on methane-air deflagration characteristics. Journal of Loss Prevention in the Process Industries, 2013, 26, 1335-1340.	3.3	45
18	Preventing the propagation of gas explosion in ducts using spurted nitrogen. Chemical Engineering Research and Design, 2019, 123, 11-23.	5.6	44

#	ARTICLE	IF	CITATIONS
19	Large eddy simulation of methane-air deflagration in an obstructed chamber using different combustion models. <i>Journal of Loss Prevention in the Process Industries</i> , 2012, 25, 730-738.	3.3	41
20	Synergistic inhibition effect on methane/air explosions by N ₂ -twin-fluid water mist containing sodium chloride additive. <i>Fuel</i> , 2019, 253, 361-368.	6.4	40
21	Effect of side venting areas on the methane/air explosion characteristics in a pipeline. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 54, 123-130.	3.3	37
22	Effects of obstacle position and hydrogen volume fraction on premixed syngas-air flame acceleration. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29518-29532.	7.1	37
23	Influence of obstacle blockage on methane/air explosion characteristics affected by side venting in a duct. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 54, 281-288.	3.3	36
24	Study on the propagation characteristics of hydrogen/methane/air premixed flames in variable cross-section ducts. <i>Chemical Engineering Research and Design</i> , 2020, 135, 135-143.	5.6	36
25	Effect of N ₂ and CO ₂ on explosion behavior of syngas/air mixtures in a closed duct. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28044-28055.	7.1	35
26	Suppression of CO ₂ and H ₂ O on the cellular instability of premixed methane/air flame. <i>Fuel</i> , 2020, 264, 116862.	6.4	35
27	Acoustic emission monitoring technology for coal and gas outburst. <i>Energy Science and Engineering</i> , 2019, 7, 443-456.	4.0	34
28	Influence of side venting position on methane/air explosion characteristics in an end-vented duct containing an obstacle. <i>Experimental Thermal and Fluid Science</i> , 2018, 92, 202-210.	2.7	33
29	Study on explosion characteristics of premixed hydrogen/biogas/air mixture in a duct. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27159-27173.	7.1	33
30	Suppressing methane explosion overpressure using a charged water mist containing a NaCl additive. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 21-29.	4.4	32
31	Effects of hydrogen addition on methane-air deflagration in obstructed chamber. <i>Experimental Thermal and Fluid Science</i> , 2017, 80, 270-280.	2.7	32
32	Experimental Investigation on the Permeability Evolution of Compacted Broken Coal. <i>Transport in Porous Media</i> , 2017, 116, 847-868.	2.6	30
33	Effect of side vent size on a methane/air explosion in an end-vented duct containing an obstacle. <i>Experimental Thermal and Fluid Science</i> , 2019, 101, 141-150.	2.7	28
34	Evolution of Broken Coal Permeability Under the Condition of Stress, Temperature, Moisture Content, and Pore Pressure. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2803-2814.	5.4	27
35	Suppression of methane/air explosion in pipeline by water mist. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 791-796.	3.3	24
36	The influence of the charge-to-mass ratio of the charged water mist on a methane explosion. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 41, 68-76.	3.3	23

#	ARTICLE	IF	CITATIONS
37	Experimental investigation on the effect of obstacle position on the explosion behaviors of the non-uniform methane/air mixture. <i>Fuel</i> , 2022, 320, 123989.	6.4	22
38	Effect of equivalence ratio and ignition location on premixed syngas-air explosion in a half-open duct. <i>Fuel</i> , 2021, 288, 119724.	6.4	21
39	Explosion behavior of non-uniform methane/air mixture in an obstructed duct with different blockage ratios. <i>Energy</i> , 2022, 255, 124603.	8.8	21
40	On the propagation dynamics of lean H ₂ /CO/air premixed flame. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7210-7222.	7.1	19
41	Evolution Characteristics of Bulking Factor in the Multi-field Loading of Broken Coal: An Experimental Study. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 1481-1499.	5.4	17
42	Effect of hydrogen enrichment on the laminar burning characteristics of dimethyl-ether/methane fuel: Experimental and modeling study. <i>Fuel</i> , 2021, 305, 121475.	6.4	16
43	Effect of Variable Cross-section Duct on Flame Propagation Characteristics of Premixed hydrogen/methane/air Combustible Gas. <i>Combustion Science and Technology</i> , 2021, 193, 1425-1443.	2.3	15
44	Monitoring NO _x Emissions from Coal Fired Boilers Using Generalized Regression Neural Network. , 2008, , .		14
45	Experimental study on the premixed syngas-air explosion in duct with both ends open. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11004-11014.	7.1	14
46	Experimental and numerical study on the explosion suppression of hydrogen/dimethyl ether/methane/air mixtures by water mist containing NaHCO ₃ . <i>Fuel</i> , 2022, 328, 125235.	6.4	13
47	Flame propagation mode transition of premixed syngas-air mixtures in a closed duct. <i>Fuel</i> , 2022, 318, 123649.	6.4	12
48	Application of large eddy simulation in methane-air explosion prediction using thickening flame approach. <i>Chemical Engineering Research and Design</i> , 2022, 159, 662-673.	5.6	11
49	Effect of temperature on the evolution and distribution for particle size of loose broken coal during the uniaxial confined compression process. <i>Fuel</i> , 2022, 318, 123592.	6.4	11
50	Experimental study on suppression of methane explosion by porous media and ultra-fine water mist. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 1751-1764.	2.3	10
51	An experimental study on the oscillation of the propagating syngas-air flame in a duct. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22234-22243.	7.1	10
52	The Characteristics of Methane Combustion Suppression by Water Mist and Its Engineering Applications. <i>Energies</i> , 2017, 10, 1566.	3.1	9
53	Experimental Study on the Effect of Chemical Composite Additives on Heat Release Characteristics of Coal Oxidation Spontaneous Combustion. <i>Combustion Science and Technology</i> , 2021, 193, 561-576.	2.3	8
54	Effects of equivalence ratio and fuel composition on the explosion characteristics of syngas/air mixtures at sub-atmospheric pressures. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 78, 104819.	3.3	7

#	ARTICLE	IF	CITATIONS
55	Synergistic inhibition effect on the self-acceleration characteristics in the initial stage of methane/air explosion by CO ₂ and ultrafine water mist. RSC Advances, 2019, 9, 13940-13948.	3.6	6
56	Characteristics for Oxygen-Lean Combustion and Residual Thermodynamics in Coalfield-Fire Zones within Axial Pressure. ACS Omega, 2020, 5, 22502-22512.	3.5	6
57	Support Vector Regression and Ant Colony Optimization for Combustion Performance of Boilers. , 2008, , .		5
58	Improved Prediction of Nitrogen Oxides Using GRNN with K-Means Clustering and EDA. , 2008, , .		5
59	Spruting NH ₄ H ₂ PO ₄ Powder to Prevent the Propagation of Gas Explosion along the Duct. Combustion Science and Technology, 2021, 193, 2534-2552.	2.3	5
60	Flame propagation inhibition study on methane/air explosion using CO ₂ twin-fluid water mist containing potassium salt additives. Journal of Loss Prevention in the Process Industries, 2022, 78, 104817.	3.3	5
61	Use of differential evolution in low NO _x combustion optimization of a coal-fired boiler. , 2010, , .		3
62	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
63	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
64	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
65	Coal pillar's breaking and fracture development mechanism and numerical simulation. Thermal Science, 2022, 26, 2439-2446.	1.1	3
66	Prediction of Explosion Limits of Multi-Component Gas Mixture Using LS-SVR. , 2010, , .		2
67	Prediction of nitrogen oxides from coal combustion by using response surface methodology. , 2012, , .		2
68	Reducing NO _x emission from a coal-fired boiler based on regression and optimization. , 2010, , .		1
69	Estimation of explosion limits of gas mixture using a single spread GRNN. , 2011, , .		1
70	Optimization of NO _x emission from coal combustion process using pattern search. , 2011, , .		0