

Jian-Zhong Liu

List of Publications by Year in descending order

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165
papers

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126708

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166
docs citations

166
times ranked

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#	ARTICLE	IF	CITATIONS
1	Pore structure and fractal analysis of Ximeng lignite under microwave irradiation. <i>Fuel</i> , 2015, 146, 41-50.	3.4	135
2	Effect of hydrothermal dewatering on the slurryability of brown coals. <i>Energy Conversion and Management</i> , 2012, 57, 8-12.	4.4	134
3	Fractal characteristics of pore structures in 13 coal specimens: Relationship among fractal dimension, pore structure parameter, and slurry ability of coal. <i>Fuel Processing Technology</i> , 2016, 149, 256-267.	3.7	99
4	Moisture removal mechanism of low-rank coal by hydrothermal dewatering: Physicochemical property analysis and DFT calculation. <i>Fuel</i> , 2017, 187, 242-249.	3.4	90
5	Thin-layer drying characteristics and modeling of Ximeng lignite under microwave irradiation. <i>Fuel Processing Technology</i> , 2015, 130, 62-70.	3.7	89
6	Fermentative biohydrogen and biomethane co-production from mixture of food waste and sewage sludge: Effects of physiochemical properties and mix ratios on fermentation performance. <i>Applied Energy</i> , 2016, 184, 1-8.	5.1	87
7	The slurring properties of slurry fuels made of petroleum coke and petrochemical sludge. <i>Fuel Processing Technology</i> , 2012, 104, 57-66.	3.7	79
8	Improvement of Coal Water Slurry Property through Coal Physicochemical Modifications by Microwave Irradiation and Thermal Heat. <i>Energy & Fuels</i> , 2008, 22, 2422-2428.	2.5	77
9	Removal of oxygen functional groups in lignite by hydrothermal dewatering: An experimental and DFT study. <i>Fuel</i> , 2016, 178, 85-92.	3.4	77
10	Effects of pore fractal structures of ultrafine coal water slurries on rheological behaviors and combustion dynamics. <i>Fuel</i> , 2008, 87, 2620-2627.	3.4	75
11	Chemical and structural changes in XiMeng lignite and its carbon migration during hydrothermal dewatering. <i>Fuel</i> , 2015, 148, 139-144.	3.4	72
12	Aluminum agglomeration of AP/HTPB composite propellant. <i>Acta Astronautica</i> , 2019, 156, 14-22.	1.7	70
13	Frequency comparative study of coal-fired fly ash acoustic agglomeration. <i>Journal of Environmental Sciences</i> , 2011, 23, 1845-1851.	3.2	67
14	A Cu foam cathode used as a Pt@RGO catalyst matrix to improve CO ₂ reduction in a photoelectrocatalytic cell with a TiO ₂ photoanode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12947-12957.	5.2	65
15	Catalytic effect of metal chlorides on coal pyrolysis and gasification part I. Combined TG-FTIR study for coal pyrolysis. <i>Thermochimica Acta</i> , 2017, 655, 331-336.	1.2	61
16	Rheology and thixotropic properties of slurry fuel prepared using municipal wastewater sludge and coal. <i>Chemical Engineering Science</i> , 2012, 76, 1-8.	1.9	59
17	Characteristics of O ₃ Oxidation for Simultaneous Desulfurization and Denitration with Limestone-Gypsum Wet Scrubbing: Application in a Carbon Black Drying Kiln Furnace. <i>Energy & Fuels</i> , 2016, 30, 2302-2308.	2.5	59
18	Study on coal water slurries prepared from coal chemical wastewater and their industrial application. <i>Applied Energy</i> , 2020, 268, 114976.	5.1	59

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19	The Slurrying Properties of Coal Water Slurries Containing Raw Sewage Sludge. <i>Energy & Fuels</i> , 2011, 25, 747-752.	2.5	58
20	Effect of particle size and oxygen content on ignition and combustion of aluminum particles. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 1835-1843.	2.8	57
21	Ignition and heterogeneous combustion of aluminum boride and boron-aluminum blend. <i>Aerospace Science and Technology</i> , 2019, 84, 1081-1091.	2.5	57
22	Boosting Defective Carbon by Anchoring Well-Defined Atomically Dispersed Ni ₄ Sites for Electrocatalytic CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10536-10543.	3.2	52
23	N ₂ O ₅ Formation Mechanism during the Ozone-Based Low-Temperature Oxidation of NO _x Process. <i>Energy & Fuels</i> , 2016, 30, 5101-5107.	2.5	51
24	Ignition and combustion characteristics of amorphous boron and coated boron particles in oxygen jet. <i>Combustion and Flame</i> , 2017, 185, 292-300.	2.8	51
25	Sulfur Transformation during Hydrothermal Dewatering of Low Rank Coal. <i>Energy & Fuels</i> , 2015, 29, 6586-6592.	2.5	50
26	Properties of Coal Water Slurry Prepared with the Solid and Liquid Products of Hydrothermal Dewatering of Brown Coal. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 4511-4517.	1.8	49
27	Improving the permittivity of Indonesian lignite with NaCl for the microwave dewatering enhancement of lignite with reduced fractal dimensions. <i>Fuel</i> , 2015, 162, 8-15.	3.4	49
28	Numerical simulation of acoustic wake effect in acoustic agglomeration under Oseen flow condition. <i>Science Bulletin</i> , 2012, 57, 2404-2412.	1.7	45
29	Metal Oxides as Catalysts for Boron Oxidation. <i>Journal of Propulsion and Power</i> , 2014, 30, 47-53.	1.3	45
30	Orthogonal design process optimization and single factor analysis for bimodal acoustic agglomeration. <i>Powder Technology</i> , 2011, 210, 315-322.	2.1	43
31	Removing ethinylestradiol from wastewater by microalgae mutant <i>Chlorella</i> PY-ZU1 with CO ₂ fixation. <i>Bioresource Technology</i> , 2018, 249, 284-289.	4.8	43
32	Catalytic oxidation of NO by O ₂ over CeO ₂ -MnO _x : SO ₂ poisoning mechanism. <i>RSC Advances</i> , 2016, 6, 31422-31430.	1.7	38
33	CO ₂ absorption and diffusion in ionic liquid [P66614][Triz] modified molecular sieves SBA-15 with various pore lengths. <i>Fuel Processing Technology</i> , 2018, 172, 216-224.	3.7	36
34	Effect of Initial Oxide Layer on Ignition and Combustion of Boron Powder. <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 185-191.	1.0	35
35	Improving slurriability, rheology, and stability of slurry fuel from blending petroleum coke with lignite. <i>Petroleum Science</i> , 2015, 12, 157-169.	2.4	35
36	Effect of metal additives on the composition and combustion characteristics of primary combustion products of B-based propellants. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 497-508.	2.0	35

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37	Decrease in light/dark cycle of microalgal cells with computational fluid dynamics simulation to improve microalgal growth in a raceway pond. <i>Bioresource Technology</i> , 2016, 220, 352-359.	4.8	35
38	Theoretical Investigation of Noncovalent Interactions between Low-Rank Coal and Water. <i>Energy & Fuels</i> , 2016, 30, 7118-7124.	2.5	35
39	Improvement in energy release properties of boron-based propellant by oxidant coating. <i>Thermochimica Acta</i> , 2016, 638, 58-68.	1.2	35
40	Catalytic effect of metal chlorides on coal pyrolysis and gasification part â...j. Effects of acid washing on coal characteristics. <i>Thermochimica Acta</i> , 2018, 666, 41-50.	1.2	35
41	Improving the slurring ability of XiMeng brown coal by medium- to low-temperature thermal treatment. <i>Fuel Processing Technology</i> , 2014, 119, 218-227.	3.7	32
42	Energy release properties of amorphous boron and boron-based propellant primary combustion products. <i>Acta Astronautica</i> , 2015, 112, 182-191.	1.7	32
43	Surface Coating Improves Coalâ€“Water Slurry Formation of Shangwan Coal. <i>Energy & Fuels</i> , 2011, 25, 3590-3597.	2.5	31
44	Ultrasonic sludge disintegration for improving the co-slurring properties of municipal waste sludge and coal. <i>Fuel Processing Technology</i> , 2014, 125, 94-105.	3.7	31
45	Ionic-liquid pretreatment of cassava residues for the cogeneration of fermentative hydrogen and methane. <i>Bioresource Technology</i> , 2017, 228, 348-354.	4.8	31
46	Improving effect of boron carbide on the combustion and thermal oxidation characteristics of amorphous boron. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1771-1782.	2.0	31
47	Effect of microwave irradiation on the propensity for spontaneous combustion of Inner Mongolia lignite. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 390-396.	1.7	30
48	Thermal decomposition and combustion characteristics of Al/AP/HTPB propellant. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3935-3944.	2.0	30
49	Effect of metal hydrides on the burning characteristics of boron. <i>Thermochimica Acta</i> , 2014, 597, 58-64.	1.2	29
50	Laser ignition and combustion characteristics of Al/JP-10 nanofluid droplet. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 925-934.	2.0	28
51	Catalytic Thermal Decomposition of Hydrogen Iodide in Sulfurâˆ“Iodine Cycle for Hydrogen Production. <i>Energy & Fuels</i> , 2008, 22, 1227-1232.	2.5	27
52	Dispersion mechanism of coal water slurry prepared by mixing various high-concentration organic waste liquids. <i>Fuel</i> , 2021, 287, 119340.	3.4	27
53	Ignition and Combustion of Boron Particles at One to Ten Standard Atmosphere. <i>Journal of Propulsion and Power</i> , 2014, 30, 760-764.	1.3	26
54	Upgrading Chinese Shengli lignite by microwave irradiation for slurrability improvement. <i>Fuel</i> , 2015, 159, 909-916.	3.4	26

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55	Slurrying Property and Mechanism of Coal Gasification Wastewater Slurry. <i>Energy & Fuels</i> , 2018, 32, 4833-4840.	2.5	26
56	Effect of Mineral Matter on NO Reduction in Coal Reburning Process. <i>Energy & Fuels</i> , 2007, 21, 2038-2043.	2.5	25
57	Impacts of Particle Size and Pressure on Reactivity of Boron Oxidation. <i>Journal of Propulsion and Power</i> , 2013, 29, 1207-1213.	1.3	25
58	Pyrolysis Characteristics of Coal, Biomass, and Coal-Biomass Blends under High Heating Rate Conditions: Effects of Particle Diameter, Fuel Type, and Mixing Conditions. <i>Energy & Fuels</i> , 2015, 29, 5036-5046.	2.5	25
59	Optimization of microwave dewatering of an Indonesian lignite. <i>Fuel Processing Technology</i> , 2016, 144, 71-78.	3.7	25
60	Density Functional Study of NO Desorption from Oxidation of Nitrogen Containing Char by O_2 . <i>Combustion Science and Technology</i> , 2012, 184, 445-455.	1.2	24
61	In-situ grafting to improve polarity of polyacrylonitrile hollow fiber-supported polydimethylsiloxane membranes for CO ₂ separation. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 12-19.	5.0	24
62	Ignition and combustion characteristics and agglomerate evolution mechanism of aluminum in nAl/JP-10 nanofluid fuel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1369-1379.	2.0	24
63	Effects of the physical and chemical properties of petroleum coke on its slurryability. <i>Petroleum Science</i> , 2012, 9, 251-256.	2.4	23
64	Influence of Coal Blending on Ash Fusibility in Reducing Atmosphere. <i>Energies</i> , 2015, 8, 4735-4754.	1.6	23
65	Study on dehydrogenation and oxidation kinetics mechanisms of micron α -AlH ₃ in an oxidative atmosphere. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24958-24967.	3.8	23
66	Electrolysis of the Bunsen Reaction and Properties of the Membrane in the Sulfur-Iodine Thermochemical Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13581-13588.	1.8	22
67	Combustion and agglomeration characteristics of boron particles in boron-containing fuel-rich propellant. <i>Combustion and Flame</i> , 2021, 232, 111551.	2.8	22
68	Effects of calcium oxide on the surface properties of municipal wastewater sludge and its co-slurrying ability with coal. <i>Science of the Total Environment</i> , 2013, 456-457, 9-16.	3.9	21
69	Heterogeneous decomposition and oxidation during combustion of magnesium diboride particles. <i>Acta Astronautica</i> , 2018, 153, 159-165.	1.7	21
70	Effects of Metal Ions in Organic Wastewater on Coal Water Slurry and Dispersant Properties. <i>Energy & Fuels</i> , 2019, 33, 7110-7117.	2.5	21
71	Physicochemical characterizations for improving the slurriability of Philippine lignite upgraded through microwave irradiation. <i>RSC Advances</i> , 2015, 5, 14690-14696.	1.7	20
72	Physicochemical properties of Indonesian lignite continuously modified in a tunnel-type microwave oven for slurriability improvement. <i>Fuel</i> , 2015, 150, 493-500.	3.4	20

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73	Effect of microwave irradiation on the grinding characteristics of Ximeng lignite. <i>Fuel Processing Technology</i> , 2016, 147, 2-11.	3.7	20
74	Characteristics and anode reaction of organic wastewater-assisted coal electrolysis for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20894-20903.	3.8	20
75	Evolution of solid-liquid coupling combustion characteristics of boron suspension fuel in O ₂ /Ar atmosphere. <i>Combustion and Flame</i> , 2022, 237, 111869.	2.8	20
76	Sewage sludge disruption through sonication to improve the co-preparation of coal-sludge slurry fuel: The effects of sonic frequency. <i>Applied Thermal Engineering</i> , 2016, 99, 645-651.	3.0	19
77	Combustion Characteristics and Propulsive Performance of Boron/Ammonium Perchlorate Mixtures in Microtubes. <i>Journal of Energetic Materials</i> , 2016, 34, 297-317.	1.0	19
78	Ignition and Combustion Characteristics of Heptane-Based Nanofluid Fuel Droplets. <i>Energy & Fuels</i> , 2019, 33, 10282-10289.	2.5	19
79	Effect of ammonia nitrogen and low-molecular-weight organics on the adsorption of additives on coal surface: A combination of experiments and molecular dynamics simulations. <i>Chemical Engineering Science</i> , 2019, 205, 134-142.	1.9	19
80	Combustion characteristics of oxygenated slurry droplets of nano-Al/EtOH and nano-Al/TPGME blends. <i>Energy</i> , 2021, 220, 119693.	4.5	19
81	Ignition and combustion of boron particles coated by modified materials with various action mechanisms. <i>Combustion and Flame</i> , 2022, 242, 112208.	2.8	19
82	Effects of different drying methods on the grinding characteristics of Ximeng lignite. <i>Fuel</i> , 2015, 162, 305-312.	3.4	18
83	Enhanced hydrogen production of <i>Enterobacter aerogenes</i> mutated by nuclear irradiation. <i>Bioresource Technology</i> , 2017, 227, 50-55.	4.8	18
84	Boosting Electrochemical CO ₂ Reduction by Controlling Coordination Environment in Atomically Dispersed Ni@N _x C _y Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6438-6445.	3.2	18
85	Generating cycle flow between dark and light zones with double paddlewheels to improve microalgal growth in a flat plate photo-bioreactor. <i>Bioresource Technology</i> , 2018, 261, 151-157.	4.8	17
86	Effect of the Pyrolysis Temperature on the Grindability of Semi-cokes Produced by Two Kinds of Low-Rank Coals. <i>Energy & Fuels</i> , 2018, 32, 1297-1308.	2.5	17
87	Optimization of coating solution viscosity of hollow fiber-supported polydimethylsiloxane membrane for CO ₂ /H ₂ separation. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45765.	1.3	17
88	Structure and combustion characteristics of semi-cokes from a pilot-scale entrained flow gasifier using oxygen-enriched air. <i>Journal of the Energy Institute</i> , 2021, 97, 80-91.	2.7	17
89	Ignition and combustion characteristics of molded amorphous boron under different oxygen pressures. <i>Acta Astronautica</i> , 2017, 138, 118-128.	1.7	17
90	Changes in the physicochemical characteristics and spontaneous combustion propensity of Ximeng lignite after hydrothermal dewatering. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 2387-2394.	0.9	16

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91	Adiabatic laminar burning velocities of C ₃ H ₈ -O ₂ -CO ₂ and C ₃ H ₈ -O ₂ -N ₂ mixtures at ambient conditions-PART II: Mechanistic interpretation. <i>Fuel</i> , 2020, 276, 117946.	3.4	16
92	Role of Oxalic Acid in Promoting Ignition and Combustion of Boron: an Experimental and Theoretical Study. <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 844-851.	1.0	15
93	HNCO hydrolysis performance in urea-water solution thermohydrolysis process with and without catalysts. <i>Journal of Zhejiang University: Science A</i> , 2010, 11, 849-856.	1.3	14
94	Effects of Microwave Irradiation on Combustion and Sodium Release Characteristics of Zhundong Lignite. <i>Energy & Fuels</i> , 2016, 30, 8977-8984.	2.5	14
95	Experimental Study on Dynamic Combustion Characteristics of Aluminum Particles. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 982-992.	1.0	14
96	Ignition delay kinetic model of boron particle based on bidirectional diffusion mechanism. <i>Aerospace Science and Technology</i> , 2018, 73, 78-84.	2.5	14
97	Physicochemical properties of wastewater produced from the microwave upgrading process of Indonesian lignite. <i>Fuel</i> , 2015, 158, 435-442.	3.4	13
98	Improving microalgal growth with small bubbles in a raceway pond with swing gas aerators. <i>Bioresource Technology</i> , 2016, 216, 267-272.	4.8	13
99	Synergistic effects of mixing waste activated carbon and coal in co-slurrying and CO ₂ co-gasification. <i>Powder Technology</i> , 2022, 395, 883-892.	2.1	13
100	Performance of the Electrochemical Bunsen Reaction Using Two Different Proton Exchange Membranes in the Sulfur-Iodine Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 4966-4974.	1.8	12
101	Gasification property of coal-oilfield wastewater slurry and microscopic mechanism analysis. <i>Petroleum Science and Technology</i> , 2016, 34, 1068-1074.	0.7	12
102	Graphene Nanoplatelet and Reduced Graphene Oxide Functionalized by Ionic Liquid for CO ₂ Capture. <i>Energy & Fuels</i> , 2018, 32, 6918-6925.	2.5	12
103	Combustion of aluminum particles in a high-temperature furnace under various O ₂ /CO ₂ /H ₂ O atmospheres. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 251-260.	2.0	12
104	Nano-sized copper oxide enhancing the combustion of aluminum/kerosene-based nanofluid fuel droplets. <i>Combustion and Flame</i> , 2022, 240, 112028.	2.8	12
105	Generation and Evolution of Surface Oxide Layer of Amorphous Boron during Thermal Oxidation: A Micro/nanofabricated Slice Measurement. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 532-540.	1.0	11
106	Experimental studies on coal water slurries prepared from coal gasification wastewater. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2162.	0.8	11
107	Nano carbides-mediated acceleration of energy release behavior of amorphous boron during ignition and combustion. <i>Energy Reports</i> , 2020, 6, 1160-1169.	2.5	11
108	Effect of oleic acid on the stability and rheology of nanoaluminium/Al ₂ O ₃ biphasic system. <i>Micro and Nano Letters</i> , 2017, 12, 675-679.	0.6	11

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109	Effect of Carbon Dioxide on the Reactivity of the Oxidation of Boron Particles. Propellants, Explosives, Pyrotechnics, 2014, 39, 617-623.	1.0	10
110	Preparation and improving stability of bubble petroleum coke water slurry. Fuel, 2014, 128, 404-409.	3.4	10
111	Insight into the dissociation mechanism of ethanol molecule over the nano-aluminum surface: a density functional theory study. Journal of Materials Science, 2021, 56, 17096-17111.	1.7	10
112	Kinetics and oxidation pathways of Fe ³⁺ -catalyzed carbon-assisted water electrolysis for hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 20432-20447.	3.8	10
113	The Impact of Preheating on Stability Limits of Premixed Hydrogen-Air Combustion in a Microcombustor. Heat Transfer Engineering, 2012, 33, 661-668.	1.2	9
114	The properties of Chinese typical brown coal water slurries. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 1176-1182.	1.2	9
115	Effects of Low-Temperature Thermal and Alkaline Methods on the Structural Strength of Sludge Flocs and the Co-Slurrying Ability of Sludge and Coal. Energy & Fuels, 2016, 30, 5419-5424.	2.5	9
116	Study on the slurry ability and combustion behaviour of coal-bioferment residue of drugs slurry. Canadian Journal of Chemical Engineering, 2018, 96, 838-844.	0.9	9
117	Effect of Ammonium Perchlorate Coating on the Ignition and Combustion Characteristics of Al/JP-10 Nanofluid Fuel. Combustion Science and Technology, 2020, 192, 1567-1581.	1.2	9
118	Adsorption mechanism of oleic acid on the surface of aluminum nanoparticle: ReaxFF molecular dynamics simulation and experimental study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 618, 126500.	2.3	9
119	Study on CuO-CeO ₂ /SiC catalysts in the sulfur-iodine cycle for hydrogen production. International Journal of Energy Research, 2016, 40, 1062-1072.	2.2	8
120	Effects of the low-temperature thermo-alkaline method on the rheological properties of sludge. Journal of Environmental Management, 2016, 177, 74-83.	3.8	8
121	Study on the slurrying and rheological properties of coal-oilfield wastewater slurry. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 3687-3693.	1.2	8
122	Enhancing slurrying abilities of five lignites from Inner Mongolia of China by microwave irradiation. Drying Technology, 2018, 36, 100-108.	1.7	8
123	The formation mechanism and distribution of micro-aluminum oxide layer. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1335-1344.	2.0	8
124	Slurryability and combustion characteristics of coal-coking wastewater slurry. Canadian Journal of Chemical Engineering, 2019, 97, 1803-1808.	0.9	8
125	Adiabatic laminar burning velocities of C ₃ H ₈ -O ₂ -CO ₂ and C ₃ H ₈ -O ₂ -N ₂ mixtures at ambient conditions-PART I: Experimental and numerical study. Fuel, 2020, 263, 116533.	3.4	8
126	Mechanism underlying the effect of conventional drying on the grinding characteristics of Ximeng lignite. Korean Journal of Chemical Engineering, 2017, 34, 1250-1259.	1.2	7

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127	Hydrogen production and temperature change during the reaction of Al-Li alloy with water vapor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1036-1042.	1.2	7
128	Experimental study on the evaporation and combustion characteristics of double Al/n-heptane based nanofluid fuel droplets in high temperature environment. <i>Thermochimica Acta</i> , 2021, 705, 179049.	1.2	7
129	Splitting of CO ₂ via the Heterogeneous Oxidation of Zinc Powder in Thermochemical Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 534-542.	1.8	6
130	Hydrogen production by the reaction of Al-based metals with water vapor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 9-14.	1.2	6
131	Adsorption Behaviour of Tween 85 on Nano-Aluminium Particles in Aluminium/J/P-10 Suspensions. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2108-2115.	0.9	6
132	Metabolic pathways of <i>Chlorella</i> sp. cells induced by exogenous spermidine against nitric oxide damage from coal-fired flue gas. <i>Bioresource Technology</i> , 2021, 328, 124827.	4.8	6
133	Promotion mechanism analysis of metal hydride on the energy release characteristics of B/J/P-10 suspension fuel. <i>Fuel</i> , 2022, 316, 123409.	3.4	6
134	Slurry characteristics and mechanism analysis of petroleum coke-coal water slurry. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019, 14, e2291.	0.8	5
135	Oxidation mechanism for coal-assisted water electrolysis for hydrogen production: Evolution of different structures in coal molecules with reaction depth. <i>Fuel</i> , 2022, 321, 123910.	3.4	5
136	Nano-carbides as accelerants for boron oxidation reaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 721-728.	2.0	4
137	Roles of coal gasification wastewater in coal electrolysis for hydrogen production. <i>Fuel</i> , 2021, 305, 121600.	3.4	4
138	Initial Temperature Effects on the Combustion Characteristics of Al. <i>Propellants, Explosives, Pyrotechnics</i> , 2022, 47, .	1.0	4
139	Quantum Chemical Calculations on the Reaction of Zinc and Water in Gas Phase. <i>Combustion Science and Technology</i> , 2014, 186, 24-33.	1.2	3
140	Maximum solid concentrations of coal wastewater slurries predicted by optimized neural network based on wastewater composition data. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 465-475.	0.9	3
141	Combustion of aluminum powder using CO ₂ laser in O ₂ /CO ₂ atmosphere under different pressure conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4959-4970.	2.0	3
142	Experimental research on combustion fluorine retention using calcium-based sorbets during coal combustion (I). <i>Science in China Series A: Mathematics</i> , 2008, 14, 303-307.	0.2	2
143	Numerical Simulation of Coal Oil Water Slurry Gasification Process in New-Type Coal Water Slurry Gasifier. <i>Applied Mechanics and Materials</i> , 0, 229-231, 2501-2505.	0.2	2
144	Pore Characteristics and Slurryability of Coal Blends. <i>Energy & Fuels</i> , 2016, 30, 7158-7172.	2.5	2

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145	Effect of carbonization temperature on the grindability of carbonaceous material produced from different coals. Canadian Journal of Chemical Engineering, 2019, 97, 2653-2661.	0.9	2
146	Dynamic process of hydrogen and heat generation from reaction of Al-Li alloy powders and water vapor at moderate temperatures. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 1372-1379.	1.2	2
147	Ignition and Combustion Characteristics of Al/n-Heptane Nanoslurry Fuel Droplets via a Laser-Ignition Model. Journal of Energy Engineering - ASCE, 2021, 147, .	1.0	2
148	Numerical study on combustion performance of propane non-premixed mild in O ₂ /CO ₂ atmosphere. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-12.	1.2	2
149	Experimental research on combustion fluorine retention using calcium-based sorbets during coal combustion (II). Science in China Series A: Mathematics, 2008, 14, 667-671.	0.2	1
150	A Simplified One-Dimensional Model of Low NO _x Ignition for the Direct Flow of Pulverized Coal. , 2011, , .		1
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