

Dongke Zhang

List of Publications by Year in descending order

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189
papers

10,307
citations

44042

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39638

94
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193
all docs

193
docs citations

193
times ranked

12976
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in alkaline water electrolysis for hydrogen production and applications. Progress in Energy and Combustion Science, 2010, 36, 307-326.	15.8	2,553
2	Biomass pyrolysis—A review of modelling, process parameters and catalytic studies. Renewable and Sustainable Energy Reviews, 2015, 50, 1081-1096.	8.2	482
3	Effect of Ultrasound on Lignocellulosic Biomass as a Pretreatment for Biorefinery and Biofuel Applications. Industrial & Engineering Chemistry Research, 2013, 52, 3563-3580.	1.8	261
4	Removal of ammonium from greywater using natural zeolite. Desalination, 2011, 277, 15-23.	4.0	248
5	Effect of biochar addition on hydrogen and methane production in two-phase anaerobic digestion of aqueous carbohydrates food waste. Bioresource Technology, 2016, 219, 29-36.	4.8	245
6	Roles of biochar in improving phosphorus availability in soils: A phosphate adsorbent and a source of available phosphorus. Geoderma, 2016, 276, 1-6.	2.3	209
7	Novel $V_2O_5/BiVO_4/TiO_2$ Nanocomposites with High Visible-Light-Induced Photocatalytic Activity for the Degradation of Toluene. Journal of Physical Chemistry C, 2014, 118, 10113-10121.	1.5	184
8	Copper and zinc adsorption by softwood and hardwood biochars under elevated sulphate-induced salinity and acidic pH conditions. Chemosphere, 2016, 142, 64-71.	4.2	169
9	Evaluating the Behavior of Electrolytic Gas Bubbles and Their Effect on the Cell Voltage in Alkaline Water Electrolysis. Industrial & Engineering Chemistry Research, 2012, 51, 13825-13832.	1.8	150
10	Inductive Effect Boosting Catalytic Performance of Advanced $FeVO_4$ Catalysts in Low-Temperature NH_3 Selective Catalytic Reduction: Insight into the Structure, Interaction, and Mechanisms. ACS Catalysis, 2018, 8, 6760-6774.	5.5	138
11	In situ capture of active species and oxidation mechanism of RhB and MB dyes over sunlight-driven Ag/Ag_3PO_4 plasmonic nanocatalyst. Applied Catalysis B: Environmental, 2012, 125, 538-545.	10.8	137
12	One-step synthesis of flower-like $Ag/AgCl/BiOCl$ composite with enhanced visible-light photocatalytic activity. Catalysis Communications, 2011, 16, 229-233.	1.6	116
13	Characterisation of ash deposits on a probe at different temperatures during combustion of a Zhundong lignite in a drop tube furnace. Fuel Processing Technology, 2016, 144, 155-163.	3.7	103
14	Effect of SiO_2/Al_2O_3 ratio on the performance of nanocrystal ZSM-5 zeolite catalysts in methanol to gasoline conversion. Applied Catalysis A: General, 2016, 523, 312-320.	2.2	100
15	Thermal stability and kinetics of decomposition of ammonium nitrate in the presence of pyrite. Journal of Hazardous Materials, 2009, 165, 751-758.	6.5	99
16	Hydrophobic precipitation of carbonaceous spheres from fructose by a hydrothermal process. Carbon, 2012, 50, 2155-2161.	5.4	95
17	Rational Design of $ZnFe_2O_4/In_2O_3$ Nanoheterostructures: Efficient Photocatalyst for Gaseous 1,2-Dichlorobenzene Degradation and Mechanistic Insight. ACS Sustainable Chemistry and Engineering, 2016, 4, 4554-4562.	3.2	93
18	Supercritical CO_2 extraction of Eucalyptus leaves oil and comparison with Soxhlet extraction and hydro-distillation methods. Separation and Purification Technology, 2014, 133, 443-451.	3.9	88

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19	A new conceptual cold-end design of boilers for coal-fired power plants with waste heat recovery. <i>Energy Conversion and Management</i> , 2015, 89, 137-146.	4.4	88
20	Direct Synthesis of Hierarchical ZSM-5 Zeolite and Its Performance in Catalyzing Methanol to Gasoline Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19471-19478.	1.8	84
21	Effect of coal blending and ashing temperature on ash sintering and fusion characteristics during combustion of Zhundong lignite. <i>Fuel</i> , 2017, 195, 131-142.	3.4	82
22	A parametric study of supercritical carbon dioxide extraction of oil from <i>Moringa oleifera</i> seeds using a response surface methodology. <i>Separation and Purification Technology</i> , 2013, 113, 9-17.	3.9	74
23	Synthesis of high quality zeolites from coal fly ash: Mobility of hazardous elements and environmental applications. <i>Journal of Cleaner Production</i> , 2018, 202, 390-400.	4.6	74
24	Relating coke formation and characteristics to deactivation of ZSM-5 zeolite in methanol to gasoline conversion. <i>Applied Catalysis A: General</i> , 2018, 549, 141-151.	2.2	73
25	Composition and sintering characteristics of ashes from co-firing of coal and biomass in a laboratory-scale drop tube furnace. <i>Energy</i> , 2014, 69, 562-570.	4.5	72
26	Conversion of hexose into 5-hydroxymethylfurfural in imidazolium ionic liquids with and without a catalyst. <i>Carbohydrate Research</i> , 2011, 346, 956-959.	1.1	71
27	Changes in $\delta^{15}N$ in a soil-plant system under different biochar feedstocks and application rates. <i>Biology and Fertility of Soils</i> , 2014, 50, 275-283.	2.3	70
28	NH ₃ as a Transport Fuel in Internal Combustion Engines: A Technical Review. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2019, 141, .	1.4	70
29	An improved configuration of lignite pre-drying using a supplementary steam cycle in a lignite fired supercritical power plant. <i>Applied Energy</i> , 2015, 160, 882-891.	5.1	68
30	Sulphur transformation during pyrolysis of an Australian lignite. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1747-1753.	2.4	67
31	The mineralogy, morphology and sintering characteristics of ash deposits on a probe at different temperatures during combustion of blends of Zhundong lignite and a bituminous coal in a drop tube furnace. <i>Fuel Processing Technology</i> , 2016, 149, 176-186.	3.7	67
32	A Thermogravimetric study of the characteristics of pyrolysis of cellulose isolated from selected biomass. <i>Applied Energy</i> , 2018, 220, 87-93.	5.1	66
33	Synthesis of mesoporous alumina with tunable structural properties. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 12-20.	2.2	64
34	Manufacturing of carbon black from spent tyre pyrolysis oil – A literature review. <i>Journal of Cleaner Production</i> , 2021, 279, 123336.	4.6	64
35	Nanostructure and oxidative properties of soot from a compression ignition engine: The effect of a homogeneous combustion catalyst. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1869-1876.	2.4	62
36	A ZSM-5/MCM-48 based catalyst for methanol to gasoline conversion. <i>Fuel</i> , 2013, 104, 878-881.	3.4	61

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37	Enhancement of Low-Temperature Catalytic Activity over a Highly Dispersed Fe-Mn/Ti Catalyst for Selective Catalytic Reduction of NO _x with NH ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10159-10169.	1.8	61
38	Effect of a homogeneous combustion catalyst on the combustion characteristics and fuel efficiency in a diesel engine. <i>Applied Energy</i> , 2012, 91, 166-172.	5.1	60
39	Evaluating the effect of surface modifications on Ni based electrodes for alkaline water electrolysis. <i>Fuel</i> , 2014, 116, 692-698.	3.4	60
40	An experimental investigation into the ignition and combustion characteristics of single droplets of biochar water slurry fuels in air. <i>Applied Energy</i> , 2017, 185, 2160-2167.	5.1	60
41	Preparation of nanoporous tin oxide by electrochemical anodization in alkaline electrolytes. <i>Electrochimica Acta</i> , 2011, 56, 8797-8801.	2.6	59
42	An experimental study into pyrite transformation during pyrolysis of Australian lignite samples. <i>Fuel</i> , 2010, 89, 1700-1708.	3.4	58
43	A process for efficient conversion of fructose into 5-hydroxymethylfurfural in ammonium salts. <i>Applied Catalysis A: General</i> , 2011, 403, 98-103.	2.2	57
44	Multi-fluid reactive modeling of fluidized bed pyrolysis process. <i>Chemical Engineering Science</i> , 2015, 123, 311-321.	1.9	57
45	Manipulation of ultrasonic effects on lignocellulose by varying the frequency, particle size, loading and stirring. <i>Bioresource Technology</i> , 2013, 148, 15-23.	4.8	56
46	Supercritical fluid extraction and characterisation of Moringa oleifera leaves oil. <i>Separation and Purification Technology</i> , 2013, 118, 497-502.	3.9	54
47	The effect of a homogeneous combustion catalyst on exhaust emissions from a single cylinder diesel engine. <i>Applied Energy</i> , 2013, 102, 556-562.	5.1	52
48	An experimental investigation on the effect of convection on the ignition behaviour of single coal particles under various O ₂ concentrations. <i>Fuel</i> , 2014, 116, 77-83.	3.4	50
49	Interactions of coal gangue and pine sawdust during combustion of their blends studied using differential thermogravimetric analysis. <i>Bioresource Technology</i> , 2016, 214, 396-403.	4.8	48
50	An experimental investigation into mineral transformation, particle agglomeration and ash deposition during combustion of Zhundong lignite in a laboratory-scale circulating fluidized bed. <i>Fuel</i> , 2019, 243, 458-468.	3.4	48
51	The selective catalytic reduction of NO with propene over Cu-supported Ti-Ce mixed oxide catalysts: Promotional effect of ceria. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 115-123.	4.8	47
52	CFD modeling of mixing/segregation behavior of biomass and biochar particles in a bubbling fluidized bed. <i>Chemical Engineering Science</i> , 2014, 106, 264-274.	1.9	47
53	An improved configuration of low-temperature pre-drying using waste heat integrated in an air-cooled lignite fired power plant. <i>Applied Thermal Engineering</i> , 2015, 90, 312-321.	3.0	47
54	A preliminary assessment of the potential of using an acacia biochar system for spent mine site rehabilitation. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2138-2144.	2.7	47

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55	An experimental study of sulphate transformation during pyrolysis of an Australian lignite. Fuel Processing Technology, 2010, 91, 313-321.	3.7	45
56	Dissolution and suspension of asphaltenes with ionic liquids. Fuel, 2019, 238, 129-138.	3.4	45
57	Ignition and combustion characteristics of single droplets of a crude glycerol in comparison with pure glycerol, petroleum diesel, biodiesel and ethanol. Energy, 2016, 113, 153-159.	4.5	44
58	Effect of biochar addition on microbial community and methane production during anaerobic digestion of food wastes: The role of minerals in biochar. Bioresource Technology, 2021, 323, 124585.	4.8	44
59	Ignition and combustion characteristics of single particles of Zhundong lignite: Effect of water and acid washing. Proceedings of the Combustion Institute, 2017, 36, 2139-2146.	2.4	43
60	Effect of oxygenates addition on the flame characteristics and soot formation during combustion of single droplets of a petroleum diesel in air. Fuel, 2015, 150, 88-95.	3.4	42
61	Cornstalk liquefaction in methanol/water mixed solvents. Fuel Processing Technology, 2014, 117, 1-7.	3.7	41
62	Effect of a homogeneous combustion catalyst on combustion characteristics of single droplets of diesel and biodiesel. Proceedings of the Combustion Institute, 2013, 34, 1537-1544.	2.4	40
63	Insight into the Mechanism of Selective Catalytic Reduction of NO _x by Propene over the Cu/Ti _{0.7} Zr _{0.3} O ₂ Catalyst by Fourier Transform Infrared Spectroscopy and Density Functional Theory Calculations. Environmental Science & Technology, 2013, 47, 4528-4535.	4.6	40
64	A phenomenological model of the mechanisms of lignocellulosic biomass pyrolysis processes. Computers and Chemical Engineering, 2014, 60, 231-241.	2.0	40
65	An experimental investigation into the characteristics and deposition mechanism of high-viscosity coal ash. Fuel, 2014, 119, 14-20.	3.4	40
66	Effect of a homogeneous combustion catalyst on the characteristics of diesel soot emitted from a compression ignition engine. Applied Energy, 2014, 113, 751-757.	5.1	40
67	Effect of temperature and pressure on the mineralogical and fusion characteristics of Jincheng coal ash in simulated combustion and gasification environments. Fuel, 2013, 104, 647-655.	3.4	38
68	Characterization of hard- and softwood biochars pyrolyzed at high temperature. Environmental Geochemistry and Health, 2017, 39, 403-415.	1.8	37
69	Decomposition of key minerals in coal gangues during combustion in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. Applied Thermal Engineering, 2019, 148, 977-983.	3.0	37
70	Laminar flame speed of CO ₂ and N ₂ diluted H ₂ /CO/air flames. International Journal of Hydrogen Energy, 2016, 41, 15056-15067.	3.8	35
71	Effect of Biochar Addition and Initial pH on Hydrogen Production from the First Phase of Two-Phase Anaerobic Digestion of Carbohydrates Food Waste. Energy Procedia, 2017, 105, 379-384.	1.8	34
72	Ultrasonic Pretreatment of Wheat Straw in Oxidative and Nonoxidative Conditions Aided with Microwave Heating. Industrial & Engineering Chemistry Research, 2013, 52, 12514-12522.	1.8	33

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73	A preliminary evaluation of ZSM-5/SBA-15 composite supported Co catalysts for Fischer-Tropsch synthesis. <i>Fuel Processing Technology</i> , 2015, 134, 449-455.	3.7	33
74	Effect of a homogeneous combustion catalyst on the nanostructure and oxidative properties of soot from biodiesel combustion in a compression ignition engine. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1947-1954.	2.4	33
75	Biochar nutrient availability rather than its water holding capacity governs the growth of both C3 and C4 plants. <i>Journal of Soils and Sediments</i> , 2016, 16, 801-810.	1.5	33
76	Desulfurization of Spent Tire Pyrolysis Oil and Its Distillate via Combined Catalytic Oxidation using H_2O_2 with Formic Acid and Selective Adsorption over Al_2O_3 . <i>Energy & Fuels</i> , 2020, 34, 6209-6219.	2.5	32
77	The application of spent tyre activated carbons as low-cost environmental pollution adsorbents: A technical review. <i>Journal of Cleaner Production</i> , 2021, 312, 127566.	4.6	32
78	An experimental investigation into the solubility of Moringa oleifera oil in supercritical carbon dioxide. <i>Journal of Food Engineering</i> , 2014, 138, 1-10.	2.7	31
79	A phenomenological investigation into the opposing effects of fluid flow on sonochemical activity at different frequency and power settings. 1. Overhead stirring. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 436-445.	3.8	31
80	An experimental study of the ignition and combustion characteristics of single droplets of biochar-glycerol-water slurry fuels. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2475-2482.	2.4	31
81	Ultra-supercritical coal power plants. , 2013, , .		31
82	Hydrogen production by methane cracking over different coal chars. <i>Fuel</i> , 2011, 90, 3473-3479.	3.4	30
83	p-Xylene selectivity enhancement in methanol toluene alkylation by separation of catalysis function and shape-selective function. <i>Molecular Catalysis</i> , 2017, 433, 242-249.	1.0	30
84	A techno-economic analysis of centralised and distributed processes of ammonia dissociation to hydrogen for fuel cell vehicle applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14445-14455.	3.8	30
85	Effect of biochar in enhancing hydrogen production by mesophilic anaerobic digestion of food wastes: The role of minerals. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3695-3703.	3.8	30
86	A facile route to aqueous phase synthesis of mesoporous alumina with controllable structural properties. <i>Microporous and Mesoporous Materials</i> , 2016, 223, 203-212.	2.2	29
87	The effect of sodium silicate and sodium hydroxide on the strength of aggregates made from coal fly ash using the geopolymerisation method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 73-79.	0.8	28
88	Key thermal events during pyrolysis and CO_2 -gasification of selected combustible solid wastes in a thermogravimetric analyser. <i>Fuel</i> , 2014, 137, 77-84.	3.4	28
89	Experimental and kinetic modelling studies of laminar flame speed in mixtures of partially dissociated NH_3 in air. <i>Fuel</i> , 2020, 278, 118428.	3.4	28
90	A facile synthesis strategy for structural property control of mesoporous alumina and its effect on catalysis for biodiesel production. <i>Advanced Powder Technology</i> , 2014, 25, 1220-1226.	2.0	27

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91	Ozone effect on the flammability limit and near-limit combustion of syngas/air flames with N ₂ , CO ₂ , and H ₂ O dilutions. <i>Fuel</i> , 2016, 186, 414-421.	3.4	27
92	Thermodynamic analysis and economic evaluation of a 1000-MW bituminous coal fired power plant incorporating low-temperature pre-drying (LTPD). <i>Applied Thermal Engineering</i> , 2016, 96, 613-622.	3.0	27
93	Rheological behaviour and stability characteristics of biochar-water slurry fuels: Effect of biochar particle size and size distribution. <i>Fuel Processing Technology</i> , 2017, 156, 27-32.	3.7	27
94	An experimental study of the effect of a homogeneous combustion catalyst on fuel consumption and smoke emission in a diesel engine. <i>Energy</i> , 2011, 36, 6004-6009.	4.5	26
95	The role of titania pillar in copper-ion exchanged titania pillared clays for the selective catalytic reduction of NO by propylene. <i>Applied Catalysis A: General</i> , 2011, 398, 82-87.	2.2	26
96	Characterisation of subfractions of asphaltenes extracted from an oil sand using NMR, DEPT and MALDI-TOF. <i>Journal of Petroleum Science and Engineering</i> , 2018, 168, 148-155.	2.1	26
97	CO ₂ capture by chemical absorption in coal-fired power plants: Energy-saving mechanism, proposed methods, and performance analysis. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 449-462.	2.3	25
98	First identification of primary nanoparticles in the aggregation of HMF. <i>Nanoscale Research Letters</i> , 2012, 7, 38.	3.1	24
99	Facile Design of Highly Effective CuCeO _x /CoO _x Catalysts with Diverse Surface/Interface Structures toward NO Reduction by CO at Low Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15459-15469.	1.8	24
100	Minimum ignition energies and laminar burning velocities of ammonia, HFO-1234yf, HFC-32 and their mixtures with carbon dioxide, HFC-125 and HFC-134a. <i>Journal of Hazardous Materials</i> , 2021, 407, 124781.	6.5	24
101	Pyrolysis of an Indonesian oil sand in a thermogravimetric analyser and a fixed-bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 117, 191-198.	2.6	23
102	Investigation into scavenging of sodium and ash deposition characteristics during co-combustion of Zhundong lignite with an oil shale semi-coke of high aluminosilicate in a circulating fluidized bed. <i>Fuel</i> , 2019, 257, 116099.	3.4	23
103	Morphological and Mineralogical Characterization of Ash Deposits during Circulating Fluidized Bed Combustion of Zhundong Lignite. <i>Energy & Fuels</i> , 2019, 33, 2122-2132.	2.5	23
104	High pyrolysis temperature biochars reduce nitrogen availability and nitrous oxide emissions from an acid soil. <i>GCB Bioenergy</i> , 2018, 10, 930-945.	2.5	22
105	An experimental study of CO ₂ gasification kinetics during activation of a spent tyre pyrolysis char. <i>Chemical Engineering Research and Design</i> , 2019, 149, 129-137.	2.7	22
106	A new criterion for determination of coal ash sintering temperature using the pressure-drop technique and the effect of ash mineralogy and geochemistry. <i>Fuel</i> , 2016, 179, 71-78.	3.4	21
107	Effect of CaCO ₃ addition on ash sintering behaviour during K ₂ CO ₃ catalysed steam gasification of a Chinese lignite. <i>Applied Thermal Engineering</i> , 2017, 111, 503-509.	3.0	21
108	Effect of reaction conditions on methanol to gasoline conversion over nanocrystal ZSM-5 zeolite. <i>Catalysis Today</i> , 2018, 314, 107-113.	2.2	21

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109	Pinewood pyrolysis occurs at lower temperatures following treatment with choline-amino acid ionic liquids. <i>Fuel</i> , 2019, 236, 306-312.	3.4	21
110	Utilisation of spent tyre pyrolysis char as activated carbon feedstock: The role, transformation and fate of Zn. <i>Waste Management</i> , 2021, 126, 549-558.	3.7	21
111	CO ₂ and H ₂ O Gasification Kinetics of a Coal Char in the Presence of Methane. <i>Energy & Fuels</i> , 2008, 22, 2160-2165.	2.5	20
112	Characterisation of Asphaltenes Extracted from an Indonesian Oil Sand Using NMR, DEPT and MALDI-TOF. <i>Energy Procedia</i> , 2015, 75, 847-852.	1.8	20
113	Effect of ash preparation method on the sintering characteristics of ashes from combustion of coal and biomass blends. <i>Fuel</i> , 2016, 186, 830-837.	3.4	20
114	An experimental and kinetic study of canola oil transesterification catalyzed by mesoporous alumina supported potassium. <i>Applied Catalysis A: General</i> , 2017, 530, 166-173.	2.2	20
115	A phenomenological investigation into the opposing effects of fluid flow on sonochemical activity at different frequency and power settings. 2. Fluid circulation at high frequencies. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 485-492.	3.8	19
116	An experimental study of rheological properties and stability characteristics of biochar-glycerol-water slurry fuels. <i>Fuel Processing Technology</i> , 2016, 153, 37-42.	3.7	19
117	Effect of n-butanol addition on the burning rate and soot characteristics during combustion of single droplets of diesel-biodiesel blends. <i>Fuel</i> , 2020, 265, 117020.	3.4	19
118	Mixing narrow coarse and fine coal fractions – The maximum volume fraction of suspensions. <i>Advanced Powder Technology</i> , 2013, 24, 764-770.	2.0	18
119	Structure sensitivity of selective catalytic reduction of NO with propylene over Cu-doped Ti _{0.5} Zr _{0.5} O ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 519-528.	10.8	18
120	Preparation and evaluation of iron nanoparticles embedded CNTs grown on ZSM-5 as catalysts for NO decomposition. <i>Chemical Engineering Journal</i> , 2020, 392, 123798.	6.6	18
121	Synergistic effect of dielectric barrier discharge plasma and Mn catalyst on CO ₂ reforming of toluene. <i>Fuel</i> , 2021, 285, 119057.	3.4	18
122	A Preliminary Investigation Into the Characterization of Asphaltenes Extracted From an Oil Sand and Two Vacuum Residues From Petroleum Refining Using Nuclear Magnetic Resonance, DEPT, and MALDI-TOF. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	17
123	Combustion and emission characteristics of simulated biogas from Two-Phase Anaerobic Digestion (T-PAD) in a spark ignition engine. <i>Applied Thermal Engineering</i> , 2018, 129, 927-933.	3.0	17
124	Experimental and kinetic modelling studies of flammability limits of partially dissociated NH ₃ and air mixtures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2023-2030.	2.4	17
125	An experimental study of Ni-Mo adsorbent for reactive adsorption desulfurization of spent tire pyrolysis oil modelled using n-hexane and thiophene. <i>Fuel</i> , 2021, 303, 121272.	3.4	17
126	An investigation into the preparation of carbon black by partial oxidation of spent tyre pyrolysis oil. <i>Waste Management</i> , 2022, 137, 110-120.	3.7	17

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127	An Experimental Study of Effect of Water on Ignition and Combustion Characteristics of Single Droplets of Glycerol. <i>Energy Procedia</i> , 2015, 75, 578-583.	1.8	16
128	An Experimental Study of the Rheological Properties and Stability Characteristics of Biochar-Algae-Water Slurry Fuels. <i>Energy Procedia</i> , 2017, 105, 125-130.	1.8	16
129	Effect of Biochar Addition and Temperature on Hydrogen Production From the First Phase of Two-Phase Anaerobic Digestion of Carbohydrates Food Waste. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	16
130	Anodization process of Sn in oxalic acid at low applied voltages. <i>Electrochimica Acta</i> , 2012, 59, 441-448.	2.6	15
131	Inhibition of Arabidopsis chloroplast β -amylase BAM3 by maltotriose suggests a mechanism for the control of transitory leaf starch mobilisation. <i>PLoS ONE</i> , 2017, 12, e0172504.	1.1	15
132	Preparation and characterization of carbon black (CB) using heavy residue fraction of spent tyre pyrolysis oil. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106561.	3.3	15
133	Effect of zirconium on the structure and activity of Cu/Ti α -Zr α O α catalysts for selective catalytic reduction of NO with C α H α 6. <i>Catalysis Science and Technology</i> , 2012, 2, 1711.	2.1	14
134	Semiempirical Correlation for Predicting Laminar Flame Speed of H α ₂ /CO/Air Flames with CO α ₂ and N α ₂ Dilution. <i>Energy & Fuels</i> , 2017, 31, 9957-9966.	2.5	14
135	Experimental Study of Ignition and Combustion Characteristics of Single Particles of Zhundong Lignite. <i>Energy & Fuels</i> , 2018, 32, 4221-4226.	2.5	14
136	The role of solvent preparation in soft template assisted synthesis of mesoporous alumina. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 9-16.	2.2	14
137	An experimental investigation into the effect of flue gas recirculation on ash deposition and Na migration behaviour in circulating fluidized bed during combustion of high sodium Zhundong lignite. <i>Fuel Processing Technology</i> , 2020, 199, 106300.	3.7	14
138	An experimental study of gasification kinetics during steam activation of a spent tyre pyrolysis char. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105306.	3.3	14
139	Synthesis of inter-crystalline mesoporous ZSM-5 generated by self-interlocked MFI nanosheet stacks. <i>RSC Advances</i> , 2015, 5, 63765-63776.	1.7	13
140	Process modelling of biomass conversion to biofuels with combined heat and power. <i>Bioresource Technology</i> , 2015, 198, 309-315.	4.8	13
141	Hydrogen production by methane cracking over Xiaolongtan lignite chars: The role of mineral matter. <i>Fuel</i> , 2016, 183, 345-350.	3.4	13
142	A thermodynamic analysis and economic evaluation of an integrated lignite upgrading and power generation system. <i>Applied Thermal Engineering</i> , 2018, 135, 356-367.	3.0	13
143	Experimental Investigation into Ash Deposition and Na Migration Characteristics during Combustion of High Sodium Zhundong Lignite in a Circulating Fluidized Bed Operating at Low Temperatures. <i>Energy & Fuels</i> , 2020, 34, 188-198.	2.5	13
144	Fluorine-Containing Triazole-Decorated Silver(I)-Based Cationic Metal-Organic Framework for Separating Organic Dyes and Removing Oxoanions from Water. <i>Inorganic Chemistry</i> , 2021, 60, 7070-7081.	1.9	13

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145	Extinction limit and near-limit kinetics of lean premixed stretched H ₂ -CO-air flames. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17687-17694.	3.8	12
146	Combustion and Emission Characteristics of a Spark Ignition Engine Fuelled with Biogas from Two-Phase Anaerobic Digestion (T-PAD). <i>Energy Procedia</i> , 2017, 105, 137-142.	1.8	12
147	Synthesis of 2D MFI zeolites in the form of self-interlocked nanosheet stacks with tuneable structural and chemical properties for catalysis. <i>Applied Materials Today</i> , 2018, 11, 22-33.	2.3	12
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