

Zhong-yang Luo

List of Publications by Year in descending order

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171
papers

5,878
citations

66315

42
h-index

85498

71
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171
all docs

171
docs citations

171
times ranked

5302
citing authors

#	ARTICLE	IF	CITATIONS
1	The activity and characterization of CeO ₂ -TiO ₂ catalysts prepared by the sol-gel method for selective catalytic reduction of NO with NH ₃ . <i>Journal of Hazardous Materials</i> , 2010, 174, 734-739.	6.5	411
2	Pyrolysis behaviors of four lignin polymers isolated from the same pine wood. <i>Bioresource Technology</i> , 2015, 182, 120-127.	4.8	299
3	Preparation and characterization of CeO ₂ /TiO ₂ catalysts for selective catalytic reduction of NO with NH ₃ . <i>Catalysis Communications</i> , 2010, 11, 465-469.	1.6	250
4	Degradation mechanism of monosaccharides and xylan under pyrolytic conditions with theoretic modeling on the energy profiles. <i>Bioresource Technology</i> , 2013, 143, 378-383.	4.8	149
5	Mercury Oxidation over a Vanadia-based Selective Catalytic Reduction Catalyst. <i>Energy & Fuels</i> , 2009, 23, 253-259.	2.5	140
6	Effects of torrefaction on hemicellulose structural characteristics and pyrolysis behaviors. <i>Bioresource Technology</i> , 2016, 218, 1106-1114.	4.8	139
7	A Ce-Cu-Ti oxide catalyst for the selective catalytic reduction of NO with NH ₃ . <i>Catalysis Communications</i> , 2010, 12, 255-258.	1.6	136
8	Non-Thermal Plasmas for VOCs Abatement. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 1033-1065.	1.1	130
9	Influence of torrefaction pretreatment on biomass gasification technology. <i>Science Bulletin</i> , 2011, 56, 1449-1456.	1.7	128
10	Enhanced CO ₂ Absorption and Desorption by Monoethanolamine (MEA)-Based Nanoparticle Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7830-7838.	1.8	123
11	Thermodynamic and economic analysis of polygeneration system integrating atmospheric pressure coal pyrolysis technology with circulating fluidized bed power plant. <i>Applied Energy</i> , 2014, 113, 1301-1314.	5.1	117
12	Effects of PbCl ₂ on selective catalytic reduction of NO with NH ₃ over vanadia-based catalysts. <i>Journal of Hazardous Materials</i> , 2014, 274, 270-278.	6.5	110
13	Investigation of the effect of Cu addition on the SO ₂ -resistance of a CeTi oxide catalyst for selective catalytic reduction of NO with NH ₃ . <i>Fuel</i> , 2012, 92, 49-55.	3.4	104
14	New insights into the various decomposition and reactivity behaviors of NH ₄ HSO ₄ with NO on V ₂ O ₅ /TiO ₂ catalyst surfaces. <i>Chemical Engineering Journal</i> , 2016, 283, 846-854.	6.6	101
15	Accelerated mineral carbonation curing of cement paste for CO ₂ sequestration and enhanced properties of blended calcium silicate. <i>Chemical Engineering Journal</i> , 2017, 323, 320-329.	6.6	96
16	Experimental study on improving the efficiency of dust removers by using acoustic agglomeration as pretreatment. <i>Powder Technology</i> , 2016, 289, 52-59.	2.1	95
17	Mechanism study on cellulose pyrolysis using thermogravimetric analysis coupled with infrared spectroscopy. <i>Frontiers of Energy and Power Engineering in China</i> , 2007, 1, 413-419.	0.4	93
18	Selection of Blended Solvents for CO ₂ Absorption from Coal-Fired Flue Gas. Part 1: Monoethanolamine (MEA)-Based Solvents. <i>Energy & Fuels</i> , 2012, 26, 147-153.	2.5	85

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19	Investigation of hybrid plasma-catalytic removal of acetone over CuO/ γ -Al ₂ O ₃ catalysts using response surface method. <i>Chemosphere</i> , 2016, 155, 9-17.	4.2	85
20	H ₂ rich gas production via pressurized fluidized bed gasification of sawdust with in situ CO ₂ capture. <i>Applied Energy</i> , 2013, 109, 36-43.	5.1	80
21	Improved Simple Analytical Model and experimental study of a 100 W $\hat{\nu}$ -type Stirling engine. <i>Applied Energy</i> , 2016, 169, 768-787.	5.1	80
22	Separation and characterization of pyrolytic lignins from the heavy fraction of bio-oil by molecular distillation. <i>Separation and Purification Technology</i> , 2015, 152, 123-132.	3.9	77
23	The Influence of Copper Particle Dispersion in Cu/SiO ₂ Catalysts on the Hydrogenation Synthesis of Ethylene Glycol. <i>Catalysis Letters</i> , 2010, 135, 275-281.	1.4	72
24	High-Performance Separation of Phenolic Compounds from Coal-Based Liquid Oil by Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7777-7783.	3.2	69
25	Low temperature hydrogenation of pyrolytic lignin over Ru/TiO ₂ : 2D HSQC and ¹³ C NMR study of reactants and products. <i>Green Chemistry</i> , 2016, 18, 271-281.	4.6	68
26	Conversion of C5 carbohydrates into furfural catalyzed by a Lewis acidic ionic liquid in renewable $\hat{\nu}$ -valerolactone. <i>Green Chemistry</i> , 2017, 19, 3869-3879.	4.6	68
27	Gas-Phase Elemental Mercury Removal by CeO ₂ Impregnated Activated Coke. <i>Energy & Fuels</i> , 2010, 24, 5426-5431.	2.5	67
28	Carbonation curing for wollastonite-Portland cementitious materials: CO ₂ sequestration potential and feasibility assessment. <i>Journal of Cleaner Production</i> , 2019, 211, 830-841.	4.6	67
29	Transformation behavior of alkali metals in high-alkali coals. <i>Fuel Processing Technology</i> , 2018, 169, 288-294.	3.7	60
30	A study on the mechanism research on cellulose pyrolysis under catalysis of metallic salts. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 336-340.	1.2	59
31	The Influence of Alkali Metals on the Ce-Ti Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO _x . <i>ChemCatChem</i> , 2012, 4, 2075-2081.	1.8	59
32	The Reaction of Poisonous Alkali Oxides with Vanadia SCR Catalyst and the Afterward Influence: A DFT and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1905-1912.	1.5	57
33	Design optimization with computational fluid dynamic analysis of $\hat{\nu}$ -type Stirling engine. <i>Applied Thermal Engineering</i> , 2017, 113, 87-102.	3.0	57
34	Relationship between the molecular structure of V ₂ O ₅ /TiO ₂ catalysts and the reactivity of SO ₂ oxidation. <i>Catalysis Science and Technology</i> , 2016, 6, 1187-1194.	2.1	53
35	Conversion mechanism of fuel-N during pyrolysis of biomass wastes. <i>Fuel</i> , 2019, 246, 42-50.	3.4	51
36	Thermodynamic analysis of a biomass anaerobic gasification process for hydrogen production with sufficient CaO. <i>Renewable Energy</i> , 2007, 32, 2502-2515.	4.3	50

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37	Study on the Deposits Derived from a Biomass Circulating Fluidized-Bed Boiler. <i>Energy & Fuels</i> , 2012, 26, 6008-6014.	2.5	50
38	Effect of electrode configuration on particle collection in a high-temperature electrostatic precipitator. <i>Separation and Purification Technology</i> , 2016, 166, 157-163.	3.9	50
39	Electric agglomeration modes of coal-fired fly-ash particles with water droplet humidification. <i>Fuel</i> , 2017, 200, 134-145.	3.4	49
40	Experimental and theoretical studies on the influence of water vapor on the performance of a Ce-Cu-Ti oxide SCR catalyst. <i>Applied Surface Science</i> , 2013, 270, 370-376.	3.1	47
41	Investigation of the promotion effect of WO ₃ on the decomposition and reactivity of NH ₄ HSO ₄ with NO on V ₂ O ₅ –WO ₃ /TiO ₂ SCR catalysts. <i>RSC Advances</i> , 2016, 6, 55584-55592.	1.7	47
42	Effects of simultaneous acoustic and electric fields on removal of fine particles emitted from coal combustion. <i>Powder Technology</i> , 2015, 281, 12-19.	2.1	44
43	Multi-objective optimization for GPU3 Stirling engine by combining multi-objective algorithms. <i>Renewable Energy</i> , 2016, 94, 114-125.	4.3	43
44	Investigation on K and Cl release and migration in micro-spatial distribution during rice straw pyrolysis. <i>Fuel</i> , 2016, 167, 180-187.	3.4	40
45	Factors Impacting Gaseous Mercury Speciation in Postcombustion. <i>Energy & Fuels</i> , 2007, 21, 491-495.	2.5	39
46	Spontaneous Cooling Absorption of CO ₂ by a Polymeric Ionic Liquid for Direct Air Capture. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3986-3990.	2.1	39
47	Experimental investigation on charging characteristics and penetration efficiency of PM2.5 emitted from coal combustion enhanced by positive corona pulsed ESP. <i>Journal of Electrostatics</i> , 2009, 67, 799-806.	1.0	38
48	Controllable synthesis of hierarchical MnO _x /TiO ₂ composite nanofibers for complete oxidation of low-concentration acetone. <i>Journal of Hazardous Materials</i> , 2017, 337, 105-114.	6.5	37
49	Conversion of char-N into NO _x and N ₂ O during combustion of biomass char. <i>Fuel</i> , 2019, 242, 389-397.	3.4	37
50	Utilization of coal gangue and copper tailings as clay for cement clinker calcinations. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 1205-1210.	0.4	36
51	Experimental and numerical investigation on sulfur transformation in pressurized oxy-fuel combustion of pulverized coal. <i>Applied Energy</i> , 2019, 253, 113542.	5.1	36
52	Catalysis Mechanism Study of Potassium Salts on Cellulose Pyrolysis by Using TGA-FTIR Analysis. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 1133-1142.	0.3	34
53	Wetted-wall column study on CO ₂ absorption kinetics enhancement by additive of nanoparticles. , 2015, 5, 682-694.		33
54	One-pot hydrodeoxygenation (HDO) of lignin monomers to C ₉ hydrocarbons co-catalysed by Ru/C and Nb ₂ O ₅ . <i>Green Chemistry</i> , 2020, 22, 7406-7416.	4.6	33

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55	Naphthalene decomposition in a DC corona radical shower discharge. <i>Journal of Zhejiang University: Science A</i> , 2011, 12, 71-77.	1.3	32
56	Pyrolysis of wood species based on the compositional analysis. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 548-553.	1.2	30
57	Numerical calculation of particle movement in sound wave fields and experimental verification through high-speed photography. <i>Applied Energy</i> , 2017, 185, 2245-2250.	5.1	30
58	Release and transformation mechanisms of trace elements during biomass combustion. <i>Journal of Hazardous Materials</i> , 2019, 380, 120857.	6.5	30
59	Study on Catalytic Pyrolysis of Manchurian Ash for Production of Bio-Oil. <i>International Journal of Green Energy</i> , 2010, 7, 300-309.	2.1	29
60	Study of the kinetic behaviour of biomass and coal during oxyfuel co-combustion. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1796-1804.	1.7	29
61	Effects of Pyrolysis Atmosphere and Temperature on Coal Char Characteristics and Gasification Reactivity. <i>Energy Technology</i> , 2016, 4, 543-550.	1.8	28
62	Agglomeration and capture of fine particles in the coupling effect of pulsed corona discharge and acoustic wave enhanced by spray droplets. <i>Powder Technology</i> , 2017, 312, 21-28.	2.1	28
63	Characterization of pyrolytic lignin and insight into its formation mechanisms using novel techniques and DFT method. <i>Fuel</i> , 2020, 262, 116516.	3.4	28
64	Effect of zirconium(IV) propoxide concentration on the thermophysical properties of hybrid organic-inorganic films. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	27
65	Oxidative Adsorption of Elemental Mercury by Activated Carbon in Simulated Coal-Fired Flue Gas. <i>Energy & Fuels</i> , 2011, 25, 154-158.	2.5	26
66	Characteristics of Coal Partial Gasification on a Circulating Fluidized Bed Reactor. <i>Energy & Fuels</i> , 2017, 31, 2557-2564.	2.5	26
67	Pyrolysis mechanism of hemicellulose monosaccharides in different catalytic processes. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 848-854.	1.3	24
68	Evaluation on nitrogen conversion during biomass torrefaction and its blend co-combustion with coal. <i>Bioresource Technology</i> , 2021, 336, 125309.	4.8	24
69	Elemental Mercury Capture from Syngas by Novel High-Temperature Sorbent Based on Pd-Ce Binary Metal Oxides. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3678-3684.	1.8	23
70	Catalytic fast pyrolysis of enzymatic hydrolysis lignin over Lewis-acid catalyst niobium pentoxide and mechanism study. <i>Bioresource Technology</i> , 2020, 316, 123853.	4.8	23
71	Comparison of different types of secondary mirrors for solar application. <i>Optik</i> , 2014, 125, 1106-1112.	1.4	22
72	Designing Moisture-Swing CO ₂ Sorbents through Anion Screening of Polymeric Ionic Liquids. <i>Energy & Fuels</i> , 2017, 31, 11127-11133.	2.5	22

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73	Exploring the role of V ₂ O ₅ in the reactivity of NH ₄ HSO ₄ with NO on V ₂ O ₅ /TiO ₂ SCR catalysts. RSC Advances, 2016, 6, 102436-102443.	1.7	21
74	Forms of potassium and chlorine from oxy-fuel co-combustion of lignite coal and corn stover. Carbon Resources Conversion, 2019, 2, 103-110.	3.2	21
75	Effect of KCl on the selective catalytic reduction of NO with NH ₃ over vanadia-based catalysts for biomass combustion. Environmental Progress and Sustainable Energy, 2014, 33, 390-395.	1.3	20
76	Insights into agglomeration and separation of fly-ash particles in a sound wave field. RSC Advances, 2019, 9, 5224-5233.	1.7	20
77	Esters as a potential renewable fuel: A review of the combustion characteristics. Fuel Processing Technology, 2022, 229, 107185.	3.7	20
78	Influence of ash composition on the sintering behavior during pressurized combustion and gasification process. Journal of Zhejiang University: Science A, 2012, 13, 230-238.	1.3	19
79	Release Mechanism of Fuel-N into NO _x and N ₂ O Precursors during Pyrolysis of Rice Straw. Energies, 2018, 11, 520.	1.6	19
80	Investigating the correlation of biomass recalcitrance with pyrolysis oil using poplar as the feedstock. Bioresource Technology, 2019, 289, 121589.	4.8	18
81	Experimental and numerical investigation on nitrogen transformation in pressurized oxy-fuel combustion of pulverized coal. Journal of Cleaner Production, 2021, 278, 123240.	4.6	18
82	Regulation mechanism of three key parameters on catalytic characterization of molybdenum modified bimetallic micro-mesoporous catalysts during catalytic fast pyrolysis of enzymatic hydrolysis lignin. Bioresource Technology, 2021, 337, 125396.	4.8	18
83	Absorption of NO ₂ into Na ₂ S solution in a stirred tank reactor. Journal of Zhejiang University: Science A, 2009, 10, 434-438.	1.3	17
84	Numerical Studies on the Inclined Flame Front Break of Filtration Combustion in Porous Media. Energy & Fuels, 2013, 27, 4969-4976.	2.5	17
85	Elemental mercury removal from syngas by nano-ZnO sorbent. Journal of Fuel Chemistry and Technology, 2013, 41, 1371-1377.	0.9	17
86	Simulation of a Lignite-Based Polygeneration System Coproducing Electricity and Tar with Carbon Capture. Chemical Engineering and Technology, 2015, 38, 463-472.	0.9	17
87	Kinetic study on the preparation of silica from rice husk under various pretreatments. Journal of Thermal Analysis and Calorimetry, 2015, 119, 2159-2169.	2.0	17
88	Transformation behavior of potassium during pyrolysis of biomass. RSC Advances, 2017, 7, 31319-31326.	1.7	17
89	Life cycle assessment of transformation from a sub-critical power plant into a polygeneration plant. Energy Conversion and Management, 2019, 198, 111801.	4.4	17
90	A Study of the Mechanisms of Guaiacol Pyrolysis Based on Free Radicals Detection Technology. Catalysts, 2020, 10, 295.	1.6	16

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91	Coal Char Gasification on a Circulating Fluidized Bed for Hydrogen Generation: Experiments and Simulation. <i>Energy Technology</i> , 2015, 3, 1059-1067.	1.8	15
92	Effect of limestone on the emission of NO during petroleum coke combustion. <i>Fuel</i> , 2018, 224, 1-9.	3.4	15
93	Simulation of nitrogen transformation in pressurized oxy-fuel combustion of pulverized coal. <i>RSC Advances</i> , 2018, 8, 35690-35699.	1.7	15
94	Measurement on particle rotation speed in gas-solid flow based on identification of particle rotation axis. <i>Experiments in Fluids</i> , 2008, 45, 1117-1128.	1.1	14
95	Viscosity and aggregation structure of nanocolloidal dispersions. <i>Science Bulletin</i> , 2012, 57, 3644-3651.	1.7	14
96	CFD simulation with enhancement factor of sulfur dioxide absorption in the spray scrubber. <i>Journal of Zhejiang University: Science A</i> , 2008, 9, 1601-1613.	1.3	13
97	Study of Geometry Structure on a Wire-Plate Pulsed Corona Discharge Reactor. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 802-810.	0.6	13
98	Research on coal staged conversion poly-generation system based on fluidized bed. <i>International Journal of Coal Science and Technology</i> , 2014, 1, 39-45.	2.7	13
99	Experimental study of NO ₂ reduction in N ₂ /Ar and O ₂ /Ar mixtures by pulsed corona discharge. <i>Journal of Environmental Sciences</i> , 2014, 26, 2249-2256.	3.2	13
100	Agglomeration Kernel of Bipolar Charged Particles in the Presence of External Acoustic and Electric Fields. <i>Aerosol and Air Quality Research</i> , 2017, 17, 857-866.	0.9	13
101	Surfactant assisted microwave irradiation pretreatment of corncob: Effect on hydrogen production capacity, energy consumption and physiochemical structure. <i>Bioresource Technology</i> , 2022, 357, 127302.	4.8	13
102	Experimental study of the influence of acid wash on cellulose pyrolysis. <i>Frontiers of Chemical Engineering in China</i> , 2007, 1, 35-39.	0.6	12
103	Orthogonal design process optimization for particle charge distribution of mosquito coil smoke aerosol enhanced by pulsed corona discharge. <i>Powder Technology</i> , 2015, 286, 507-515.	2.1	12
104	Visualization research on electric agglomeration characteristics of fine particles. <i>Powder Technology</i> , 2018, 333, 115-121.	2.1	12
105	Techno-Economic Analysis of a Coal Staged Conversion Polygeneration System for Power and Chemicals Production. <i>Chemical Engineering and Technology</i> , 2019, 42, 73-88.	0.9	12
106	PbCl ₂ -poisoning kinetics of V ₂ O ₅ /TiO ₂ catalysts for the selective catalytic reduction of NO with NH ₃ . <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 1085-1091.	1.3	11
107	A novel method of microwave heating mixed liquid-assisted regeneration of V ₂ O ₅ -WO ₃ /TiO ₂ commercial SCR catalysts. <i>Environmental Geochemistry and Health</i> , 2015, 37, 905-914.	1.8	11
108	Sulfur Behavior of Coal and Ash during Coal Pyrolysis Combined with Combustion. <i>Energy & Fuels</i> , 2016, 30, 9589-9595.	2.5	11

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109	Hydrotreatment of model compounds with catalysts of NiW/Al ₂ O ₃ and NiWP/Al ₂ O ₃ to simulate low temperature coal tar oil. RSC Advances, 2017, 7, 54512-54521.	1.7	10
110	Comparative life cycle assessment (LCA) of biofuel production via corn stover: fermentation to ethanol, pyrolysis to bio-oil, and gasification to jet fuel. Biomass Conversion and Biorefinery, 2023, 13, 12809-12821.	2.9	10
111	Study on Agglomeration and Densification Behaviors of Gadolinium-Doped Ceria Ceramics. Journal of Rare Earths, 2007, 25, 163-167.	2.5	9
112	Experimental study on ZnO-TiO ₂ sorbents for the removal of elemental mercury. Korean Journal of Chemical Engineering, 2017, 34, 2383-2389.	1.2	9
113	Effects of the controllable mesostructure of nano-sized ZSM-5 on the co-cracking of phenolic bio-oil model compounds and ethanol. Catalysis Science and Technology, 2019, 9, 3525-3536.	2.1	9
114	Heat transfer in a large-scale circulating fluidized bed boiler. Frontiers of Energy and Power Engineering in China, 2007, 1, 477-482.	0.4	8
115	Determination of biomass-coal blending ratio by ¹⁴ C measurement in co-firing flue gas. Journal of Zhejiang University: Science A, 2019, 20, 475-486.	1.3	8
116	Investigation of ash deposition dynamic process in an industrial biomass CFB boiler burning high alkali and chlorine fuel. RSC Advances, 2020, 10, 21420-21426.	1.7	8
117	Novel Micro-Mesoporous Composite ZSM-5 Catalyst for Aromatics Production by Catalytic Fast Pyrolysis of Lignin Residues. Catalysts, 2020, 10, 378.	1.6	8
118	Optimal Design and Performance Analysis of a Low Concentrating Photovoltaic/Thermal System Using the Direct Absorption Collection Concept. , 2010, , .		7
119	EFFECT OF CHEMICAL COMPOSITION ON SINTERING BEHAVIOR OF JINCHENG COAL ASH UNDER GASIFICATION ATMOSPHERE. Chemical Engineering Communications, 2012, 199, 189-202.	1.5	7
120	Simultaneous absorption of NO _x and SO ₂ in oxidant-enhanced limestone slurry. Environmental Progress and Sustainable Energy, 2014, 33, 1171-1179.	1.3	7
121	Straw combustion in circulating fluidized bed at low temperature: Transformation and distribution of potassium. Canadian Journal of Chemical Engineering, 2010, 88, 874-880.	0.9	6
122	Energy Consumption Analysis and OH Radical Detection of NO Conversion Process From Flue Gas Using Pulsed Corona Discharge. IEEE Transactions on Plasma Science, 2014, 42, 105-113.	0.6	6
123	Thermodynamic Analysis of Ash Mineral Phases in Combustion of High-Sulfur Coal with Lime. Industrial & Engineering Chemistry Research, 2011, 50, 3064-3070.	1.8	5
124	Development of non-premixed porous inserted regenerative thermal oxidizer. Journal of Zhejiang University: Science A, 2013, 14, 671-678.	1.3	5
125	Integrated energy-exergy-based evaluation and optimization of a bio-dimethyl ether production system via entrained flow gasification. Journal of Renewable and Sustainable Energy, 2014, 6, 053133.	0.8	5
126	Effect of limestone addition on no emission during petroleum coke combustion in CFBB. Fuel, 2020, 270, 117475.	3.4	5

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127	Investigation of Ash Deposition Dynamic Process in an Industrial Biomass CFB Boiler Burning High-Alkali and Low-Chlorine Fuel. <i>Energies</i> , 2020, 13, 1092.	1.6	5
128	Investigation on Fuel-N Transformation Properties of Coal/Biomass Heating Process in CO ₂ Atmosphere. <i>Journal of Thermal Science</i> , 2021, 30, 1141-1150.	0.9	5
129	Thermodynamic analysis of 350 MWe coal power plant based on calcium looping gasification with combined cycle. <i>International Journal of Greenhouse Gas Control</i> , 2021, 110, 103439.	2.3	5
130	Experimental study on the spatial distribution of particle rotation in the upper dilute zone of a cold CFB riser. <i>Journal of Zhejiang University: Science A</i> , 2008, 9, 922-931.	1.3	4
131	Reactions of furfural and acetic acid as model compounds for bio-oil upgrading in supercritical ethanol. , 2011, , .		4
132	Oxidative Adsorption of Elemental Mercury by Activated Carbon from Coconut Shell in Simulated Flue Gas. <i>Separation Science and Technology</i> , 2014, 49, 1062-1066.	1.3	4
133	Investigation of the evolution behavior of light tar during bituminous coal pyrolysis in a fluidized bed reactor. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 1019-1027.	1.3	4
134	Catalytic Oxidation of Dimethyl Sulfide Over Commercial V-W/Ti Catalysts: Plasma Activation at Low Temperatures. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 3379-3385.	0.6	4
135	Techno-economic analysis of novel power generation system based on coal partial gasification technology. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019, 14, e2377.	0.8	4
136	Experimental study and product analysis of lignocellulosic biomass hydrolysis under extremely low acids. <i>Frontiers of Energy and Power Engineering in China</i> , 2008, 2, 268-272.	0.4	3
137	Experiments on the effect of the pressure on the mineral transformation of coal ash under the different reaction atmosphere. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 394-399.	0.6	3
138	Characterization and Analysis of Char Produced by Biomass Fast Pyrolysis. , 2010, , .		3
139	Characteristics of a Novel Solar Dish System. , 2012, , .		3
140	Impact of individual acid flue gas components on mercury capture by heat-treated activated carbon. <i>Journal of Zhejiang University: Science A</i> , 2012, 13, 700-708.	1.3	3
141	Physicochemical characteristics of biomass-coal blend char: The role of co-pyrolysis synergy. <i>Energy Science and Engineering</i> , 2021, 9, 1249-1262.	1.9	3
142	The promotion effect of pyrolysis conditions on alkali metal pretreatment during pyrolysis of sub-bituminous Zhundong coal: Carbon engulfment control and subsequent sodium transformation. <i>Fuel Processing Technology</i> , 2022, 226, 107067.	3.7	3
143	Establishment and verification of a metering scheme for biomass-coal blending ratios based on ¹⁴ C determination. <i>Fuel</i> , 2022, 327, 125198.	3.4	3
144	Experimental Study on the Separation of CO ₂ from Flue Gas Using Hollow Fiber Membrane Contactors with Aqueous Solution of Potassium Glycinate. , 2009, , .		2

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145	Experimental Study on the Absorption of CO ₂ from Flue Gas by Aqueous Solutions of Methyl-diethanolamine + Potassium Glycinate in Hollow Fiber Membrane Contactor. , 2010, , .		2
146	Synthetic fuels and chemicals production from biomass synthesis gas. , 2010, , .		2
147	Upgrading of bio-oil in supercritical ethanol. , 2011, , .		2
148	Detection of OH Radicals Generated in Wire-Plate Pulsed Corona Discharge by LIF. IEEE Transactions on Plasma Science, 2015, 43, 1747-1757.	0.6	2
149	Behavior of alkali minerals in oxyfuel co-combustion of biomass and coal at elevated pressure. Journal of Zhejiang University: Science A, 2021, 22, 116-129.	1.3	2
150	Accuracy Improvement of the 14C Method Applied in Biomass and Coal Co-Firing Power Stations. Processes, 2021, 9, 994.	1.3	2
151	A002 DEVELOPMENT OF MULTI-POLLUTANTS CONTROL TECHNOLOGY FOR FLUE GAS FROM POWER PLANTS IN CHINA(Plenary Lecture). The Proceedings of the International Conference on Power Engineering (ICOPE), 2009, 2009.1, _1-9_-_1-14_.	0.0	2
152	The Influences of Acoustic and Pulsed Corona Discharge Coupling Field on Agglomeration of Monodisperse Fine Particles. Applied Sciences (Switzerland), 2020, 10, 1045.	1.3	2
153	Experimental Study on CO ₂ Absorption and Regeneration of Aqueous Solutions of Potassium Glycinate. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
154	Catalytic Cracking of Ketone Components in Biomass Pyrolysis Oil. , 2010, , .		1
155	The Physical and Chemical Properties of Fly Ash from Coal Gasification and Study on Its Recycling Utilization. , 2010, , .		1
156	Recycling Coal Gangue as Raw Material for Portland Cement Production in Dry Rotary Kiln. , 2010, , .		1
157	Ethylene glycol and ethanol synthesis from dimethyl oxalate hydrogenation on the Cu/ZnO/SiO ₂ catalysts. , 2011, , .		1
158	Characteristics of toluene decomposition and adsorbent regeneration based on electrically conductive charcoal particle-triggered discharge. RSC Advances, 2017, 7, 44696-44705.	1.7	1
159	Removal of NO _x by radical injection. Science Bulletin, 2004, 49, 1991-1995.	1.7	0
160	Mercury Emission Measurement in Coal-Fired Boilers by Continuous Mercury Monitor and Ontario Hydro Method. AIP Conference Proceedings, 2007, , .	0.3	0
161	C309 HOW TO COMPENSATE THE LOST TEMPERATURE OF THE DIGESTER IN COLD CLIMATE(Heat Pump-3). The Proceedings of the International Conference on Power Engineering (ICOPE), 2009, 2009.3, _3-185_-_3-190_.	0.0	0
162	TG-FTIR Analysis on Sawdust Catalytic Pyrolysis with CaO. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
163	Measurements on the Local Solids Concentration in the Lower Part of a Circulating Fluidized Bed Riser. , 2009, , .		0
164	Thermodynamic Simulation of Direct DME Synthesis via Biomass Gasification. , 2010, , .		0
165	Catalytic pyrolysis of cellulose with zeolites. , 2011, , .		0
166	Experimental study on rheological characteristics of granular pseudo-fluid. , 2011, , .		0
167	Simultaneous removal of SO ₂ and NO from coal flue gas with NaClO ₂ /KMnO ₄ enhanced Ca-based sorbent. , 2011, , .		0
168	Experimental study on combined deactivating effect of K and Ca on SCR catalysts. , 2011, , .		0
169	Can CO ₂ Regeneration Heat Consumption Be Reduced by Using the Novel “Mass Concentration of Solvent Swing Regeneration (MCSR)” Technology?. , 2011, , .		0
170	Properties of Bio-Oil from Alga Fast Pyrolysis. , 2011, , .		0
171	Effect of water on CO ₂ adsorption with activated carbon. , 2013, , .		0