Jiang-long Yu

List of Publications by Year
in descending order

168 papers	7,976 citations	50244 46 h-index	58549 82 g-index
170 all docs	170 docs citations	170 times ranked	5846 citing authors

#	Article	IF	Citations
1	An overview on oxyfuel coal combustionâ€"State of the art research and technology development. Chemical Engineering Research and Design, 2009, 87, 1003-1016.	2.7	715
2	A review on water in low rank coals: The existence, interaction with coal structure and effects on coal utilization. Fuel Processing Technology, 2013, 106, 9-20.	3.7	555
3	Formation of the structure of chars during devolatilization of pulverized coal and its thermoproperties: A review. Progress in Energy and Combustion Science, 2007, 33, 135-170.	15.8	351
4	Comparative study on pyrolysis of lignocellulosic and algal biomass using a thermogravimetric and a fixed-bed reactor. Bioresource Technology, 2015, 175, 333-341.	4.8	209
5	Study of Chemical Structure Changes of Chinese Lignite upon Drying in Superheated Steam, Microwave, and Hot Air. Energy & Fuels, 2012, 26, 3651-3660.	2.5	180
6	Carbon dioxide capture using liquid absorption methods: a review. Environmental Chemistry Letters, 2021, 19, 77-109.	8.3	165
7	Preparation of synthetic graphite from bituminous coal as anode materials for high performance lithium-ion batteries. Fuel Processing Technology, 2018, 172, 162-171.	3.7	159
8	A study of chemical structure changes of Chinese lignite during fluidized-bed drying in nitrogen and air. Fuel Processing Technology, 2012, 101, 85-93.	3.7	155
9	Characteristics of Chars from Low-Temperature Pyrolysis of Lignite. Energy & Fuels, 2014, 28, 275-284.	2.5	145
10	Production of phenol-rich bio-oil during catalytic fixed-bed and microwave pyrolysis of palm kernel shell. Bioresource Technology, 2016, 207, 188-196.	4.8	141
11	Experimental study on microwave drying of Chinese and Indonesian low-rank coals. Fuel Processing Technology, 2011, 92, 1821-1829.	3.7	134
12	Conversion of Fuel-N into HCN and NH3During the Pyrolysis and Gasification in Steam:Â A Comparative Study of Coal and Biomassâ€. Energy & Fuels, 2007, 21, 517-521.	2.5	132
13	Microwave-assisted catalytic pyrolysis of lignocellulosic biomass for production of phenolic-rich bio-oil. Bioresource Technology, 2016, 211, 382-389.	4.8	131
14	A kinetic study of microwave and fluidized-bed drying of a Chinese lignite. Chemical Engineering Research and Design, 2014, 92, 54-65.	2.7	130
15	Co-pyrolysis of pine sawdust and lignite in a thermogravimetric analyzer and a fixed-bed reactor. Bioresource Technology, 2014, 174, 204-211.	4.8	126
16	A Comparative study of microwave-induced pyrolysis of lignocellulosic and algal biomass. Bioresource Technology, 2015, 190, 89-96.	4.8	108
17	Pyrolysis and Combustion Behavior of Coal Gangue in O₂/CO₂ and O₂/N₂ Mixtures Using Thermogravimetric Analysis and a Drop Tube Furnace. Energy & Fuels, 2013, 27, 2923-2932.	2.5	98
18	Effect of iron on the gasification of Victorian brown coal with steam:enhancement of hydrogen production. Fuel, 2006, 85, 127-133.	3.4	95

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19	Thermogravimetric study of the combustion of Tetraselmis suecica microalgae and its blend with a Victorian brown coal in O2/N2 and O2/CO2 atmospheres. Bioresource Technology, 2013, 150, 15-27.	4.8	93
20	Comparative study on flash pyrolysis characteristics of microalgal and lignocellulosic biomass in entrained-flow reactor. Energy Conversion and Management, 2017, 151, 426-438.	4.4	92
21	Porous graphene prepared from anthracite as high performance anode materials for lithium-ion battery applications. Journal of Alloys and Compounds, 2019, 779, 202-211.	2.8	91
22	Pyrolysis and Combustion Characteristics of an Indonesian Low-Rank Coal under O₂/N₂and O₂/CO₂Conditions^{â€}. Energy & Fuels, 2010, 24, 160-164.	2.5	89
23	Facile synthesis of graphene nanosheets from humic acid for supercapacitors. Fuel Processing Technology, 2017, 165, 112-122.	3.7	88
24	Chemical Structure Changes Accompanying Fluidized-Bed Drying of Victorian Brown Coals in Superheated Steam, Nitrogen, and Hot Air. Energy & Fuels, 2013, 27, 154-166.	2.5	83
25	Formation of nitrogen-containing compounds during microwave pyrolysis of microalgae: Product distribution and reaction pathways. Bioresource Technology, 2017, 245, 1067-1074.	4.8	83
26	CO 2 sequestration by direct mineralisation using fly ash from Chinese Shenfu coal. Fuel Processing Technology, 2017, 156, 429-437.	3.7	79
27	A review on the production of nitrogen-containing compounds from microalgal biomass via pyrolysis. Bioresource Technology, 2018, 270, 689-701.	4.8	76
28	Lignite-derived high surface area mesoporous activated carbons for electrochemical capacitors. Fuel Processing Technology, 2015, 138, 734-742.	3.7	73
29	Experimental Study on Microwave Pyrolysis of an Indonesian Low-Rank Coal. Energy & Fuels, 2014, 28, 254-263.	2.5	71
30	A differential scanning calorimetric (DSC) study on the characteristics and behavior of water in low-rank coals. Fuel, 2014, 135, 243-252.	3.4	71
31	A review on the recent advances in the production of carbon nanotubes and carbon nanofibers via microwave-assisted pyrolysis of biomass. Fuel Processing Technology, 2021, 214, 106686.	3.7	71
32	Removal of sulfur at high temperatures using iron-based sorbents supported on fine coal ash. Fuel, 2010, 89, 868-873.	3.4	69
33	Formation of hollow carbon nanofibers on bio-char during microwave pyrolysis of palm kernel shell. Energy Conversion and Management, 2017, 148, 583-592.	4.4	69
34	Photocatalytic, electrocatalytic and photoelectrocatalytic conversion of carbon dioxide: a review. Environmental Chemistry Letters, 2021, 19, 941-967.	8.3	68
35	Char-Supported Nano Iron Catalyst for Water-Gas-Shift Reaction. Chemical Engineering Research and Design, 2006, 84, 125-130.	2.7	67
36	Pressurized entrained-flow pyrolysis of microalgae: Enhanced production of hydrogen and nitrogen-containing compounds. Bioresource Technology, 2018, 256, 160-169.	4.8	66

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37	Experimental study on drying and moisture re-adsorption kinetics of an Indonesian low rank coal. Journal of Environmental Sciences, 2009, 21, S127-S130.	3.2	64
38	Green synthesis of porous graphitic carbons from coal tar pitch templated by nano-CaCO3 for high-performance lithium-ion batteries. Journal of Alloys and Compounds, 2019, 795, 91-102.	2.8	64
39	An experimental study on binderless briquetting of Chinese lignite: Effects of briquetting conditions. Fuel Processing Technology, 2014, 124, 243-248.	3.7	60
40	Effects of fly ash properties on carbonation efficiency in CO2 mineralisation. Fuel Processing Technology, 2019, 188, 79-88.	3.7	56
41	Combustion characteristics and air pollutant formation during oxy-fuel co-combustion of microalgae and lignite. Bioresource Technology, 2016, 207, 276-284.	4.8	54
42	Swelling behaviour of individual coal particles in the single particle reactor. Fuel, 2003, 82, 1977-1987.	3.4	53
43	Formation of NO precursors during the pyrolysis of coal and biomass. Part VII. Pyrolysis and gasification of cane trash with steam. Fuel, 2005, 84, 371-376.	3.4	52
44	Novel ZnOâ€"ZnS nanowire arrays with heterostructures and enhanced photocatalytic properties. CrystEngComm, 2015, 17, 6328-6337.	1.3	49
45	Production of carbon nanotubes on bio-char at low temperature via microwave-assisted CVD using Ni catalyst. Diamond and Related Materials, 2019, 91, 98-106.	1.8	49
46	Modeling the development of char structure during the rapid heating of pulverized coal. Combustion and Flame, 2004, 136, 519-532.	2.8	47
47	Mechanism of synergy effect during microwave co-pyrolysis of biomass and lignite. Journal of Analytical and Applied Pyrolysis, 2017, 128, 75-82.	2.6	47
48	Mechanistic study on direct synthesis of carbon nanotubes from cellulose by means of microwave pyrolysis. Energy Conversion and Management, 2019, 192, 88-99.	4.4	47
49	Effects of biofuel on engines performance and emission characteristics: A review. Energy, 2022, 238, 121910.	4.5	46
50	The transformation of nitrogen during pressurized entrained-flow pyrolysis of Chlorella vulgaris. Bioresource Technology, 2018, 262, 90-97.	4.8	44
51	Experimental study on the self-heating characteristics of Indonesian lignite during low temperature oxidation. Fuel, 2015, 150, 55-63.	3.4	43
52	Solvent extraction of Chinese lignite and chemical structure changes of the residue during H2O2 oxidation. Fuel Processing Technology, 2015, 129, 213-221.	3.7	43
53	Catalytic reforming of palm kernel shell microwave pyrolysis vapors over iron-loaded activated carbon: Enhanced production of phenol and hydrogen. Bioresource Technology, 2020, 306, 123111.	4.8	42
54	Coal and carbon nanotube production. Fuel, 2003, 82, 2025-2032.	3.4	41

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55	Swelling and Char Structures from Density Fractions of Pulverized Coal. Energy & Fuels, 2003, 17, 1160-1174.	2.5	41
56	Formation of NO precursors during the pyrolysis of coal and biomass. Part VIII. Effects of pressure on the formation of NH and HCN during the pyrolysis and gasification of Victorian brown coal in steam. Fuel, 2005, 84, 2102-2108.	3.4	40
57	Coal Oxidation under Mild Conditions: Current Status and Applications. Chemical Engineering and Technology, 2014, 37, 1635-1644.	0.9	40
58	Effect of K2O/Na2O on fusion behavior of coal ash with high silicon and aluminum level. Fuel, 2020, 265, 116964.	3.4	40
59	Synthesis of High Reversibility Anode Composite Materials Using T-Nb₂O₅ and Coal-Based Graphite for Lithium-Ion Battery Applications. Energy & Fuels, 2020, 34, 3887-3894.	2.5	39
60	The effects of pore structure on the behavior of water in lignite coal and activated carbon. Journal of Colloid and Interface Science, 2016, 477, 138-147.	5.0	38
61	Direct synthesis of hollow carbon nanofibers on bio-char during microwave pyrolysis of pine nut shell. Journal of Analytical and Applied Pyrolysis, 2018, 130, 142-148.	2.6	38
62	An experimental study on thermal decomposition behavior of magnesite. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1577-1584.	2.0	37
63	Effect of Pressure on Char Formation during Pyrolysis of Pulverized Coal. Energy & Fuels, 2004, 18, 1346-1353.	2.5	36
64	A review of the state-of-the-art research on carbon structure evolution during the coking process: From plastic layer chemistry to 3D carbon structure establishment. Fuel, 2020, 271, 117657.	3.4	36
65	Char reactivity and kinetics based on the dynamic char structure during gasification by CO2. Fuel Processing Technology, 2021, 211, 106583.	3.7	36
66	Microwave-assisted synthesis of biocharâ€‘carbon-nanotube-NiO composite as high-performance anode materials for lithium-ion batteries. Fuel Processing Technology, 2021, 213, 106714.	3.7	36
67	Sulfur removal property of activated-char-supported Feâ€“Mo sorbents for integrated cleaning of hot coal gases. Fuel, 2013, 108, 91-98.	3.4	34
68	Mechanistic Study of Selective Absorption of NO in Flue Gas Using EG-TBAB Deep Eutectic Solvents. Environmental Science & Technology, 2019, 53, 1031-1038.	4.6	34
69	Low-Temperature Oxidation Characteristics of Lignite Chars from Low-Temperature Pyrolysis. Energy & Fuels, 2014, 28, 5612-5622.	2.5	33
70	In-situ study of plastic layers during coking of six Australian coking coals using a lab-scale coke oven. Fuel Processing Technology, 2019, 188, 51-59.	3.7	33
71	The influences of moisture on particle ignition behavior of Chinese and Indonesian lignite coals in hot air flow. Fuel Processing Technology, 2016, 153, 149-155.	3.7	32
72	Effects of addition of Mo on the sulfidation properties of Fe-based sorbents supported on fly ash during hot coal gas desulfurization. Chemical Engineering Journal, 2011, 166, 362-367.	6.6	31

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73	Catalytic reduction of NO using iron oxide impregnated biomass and lignite char for flue gas treatment. Fuel Processing Technology, 2016, 148, 91-98.	3.7	31
74	Study of chemical structure transition in the plastic layers sampled from a pilot-scale coke oven using a thermogravimetric analyzer coupled with Fourier transform infrared spectrometer. Fuel, 2019, 242, 277-286.	3.4	31
75	The effects of oxygen and metal oxide catalysts on the reduction reaction of NO with lignite char during combustion flue gas cleaning. Fuel Processing Technology, 2016, 152, 102-107.	3.7	30
76	A study on the structural transition in the plastic layer during coking of Australian coking coals using Synchrotron micro-CT and ATR-FTIR. Fuel, 2018, 233, 877-884.	3.4	30
77	Advances in the understanding of the formation and chemistry of the plastic layer during coke-making: A comprehensive review. Fuel, 2020, 263, 116655.	3.4	30
78	Construction of vitrinite molecular structures based on 13C NMR and FT-IR analysis: Fundamental insight into coal thermoplastic properties. Fuel, 2021, 300, 120981.	3.4	30
79	Formation of NOx precursors during the pyrolysis of coal and biomass. Part IX. Effects of coal ash and externally loaded-Na on fuel-N conversion during the reforming of coal and biomass in steam. Fuel, 2006, 85, 1411-1417.	3.4	29
80	Correlation between Char Gasification Characteristics at Different Stages and Microstructure of Char by Combining X-ray Diffraction and Raman Spectroscopy. Energy & Fuels, 2020, 34, 4162-4172.	2.5	29
81	Maceral separation from coal by the Reflux Classifier. Fuel Processing Technology, 2016, 143, 43-50.	3.7	28
82	Comparison of desulfurization characteristics of lignite char-supported Fe and Feâ€“Mo sorbents for hot gas cleaning. Fuel Processing Technology, 2014, 117, 17-22.	3.7	26
83	State-of-the-Art Research and Applications of Carbon Foam Composite Materials as Electrodes for High-Capacity Lithium Batteries. Energy & Fuels, 2020, 34, 7935-7954.	2.5	26
84	An Experimental Study on Binderless Briquetting of Lowâ€Rank Coals. Chemical Engineering and Technology, 2013, 36, 749-756.	0.9	25
85	Understanding water retention behavior and mechanism in bio-char. Fuel Processing Technology, 2018, 169, 101-111.	3.7	25
86	Thermogravimetric study and modeling for the drying of a Chinese lignite. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 793-803.	0.8	24
87	Effects of drying method on self-heating behavior of lignite during low-temperature oxidation. Fuel Processing Technology, 2016, 151, 11-18.	3.7	24
88	Advances in catalytic hydrogen combustion research: Catalysts, mechanism, kinetics, and reactor designs. International Journal of Hydrogen Energy, 2021, 46, 40073-40104.	3.8	24
89	Porous Biochars Derived from Microalgae Pyrolysis for CO₂ Adsorption. Energy & Fuels, 2021, 35, 7646-7656.	2.5	22
90	Ultrasonic-assisted preparation of highly reactive Feâ€“Zn sorbents supported on activated-char for desulfurization of COG. Fuel Processing Technology, 2015, 135, 187-194.	3.7	21

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91	Chemical structure transformation during the later stage of plastic layers during coking using Synchrotron infrared microspectroscopy technique. Fuel, 2020, 273, 117764.	3.4	21
92	Mechanism of carbon structure transformation in plastic layer and semi-coke during coking of Australian metallurgical coals. Fuel, 2022, 315, 123205.	3.4	21
93	Regeneration of Feâ€“Znâ€“Cu Sorbents Supported on Activated Lignite Char for the Desulfurization of Coke Oven Gas. Energy & Fuels, 2015, 29, 7124-7134.	2.5	20
94	Thermo-swelling Properties of Particle Size Cuts of Coal Maceral Concentrates. Energy & Fuels, 2015, 29, 4893-4901.	2.5	20
95	An experimental study on the formation of methoxyaromatics during pyrolysis of Eucalyptus pulverulenta: Yields and mechanisms. Bioresource Technology, 2016, 218, 743-750.	4.8	20
96	A mechanistic study on the synthesis of Î²-Sialon whiskers from coal fly ash. Materials Research Bulletin, 2015, 65, 47-52.	2.7	19
97	Novel Calcium-Looping-Based Biomass-Integrated Gasification Combined Cycle: Thermodynamic Modeling and Experimental Study. Energy & Fuels, 2016, 30, 1730-1740.	2.5	19
98	Influence of functional group structures on combustion behavior of pulverized coal particles. Journal of the Energy Institute, 2020, 93, 2124-2132.	2.7	19
99	Intrinsic kinetics of CO2 gasification of a Victorian coal char. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1685-1694.	2.0	18
100	Effects of pressure on morphology and structure of bio-char from pressurized entrained-flow pyrolysis of microalgae. Data in Brief, 2018, 18, 422-431.	0.5	18
101	Impact of pressure on the carbon structure of char during pyrolysis of bituminous coal in pressurized entrained-flow reactor. Korean Journal of Chemical Engineering, 2019, 36, 393-403.	1.2	18
102	Promotion Effects of Pressure on Polycyclic Aromatic Hydrocarbons and H₂ Formation during Flash Pyrolysis of Palm Kernel Shell. Energy & Fuels, 2020, 34, 3346-3356.	2.5	18
103	Highly efficient and reversible low-concentration SO2 absorption in flue gas using novel phosphonium-based deep eutectic solvents with different substituents. Journal of Molecular Liquids, 2021, 340, 117228.	2.3	18
104	The use of LDI-TOF imaging mass spectroscopy to study heated coal with a temperature gradient incorporating the plastic layer and semi-coke. Fuel, 2016, 165, 33-40.	3.4	17
105	Improvement in Reactivity and Pollutant Emission by Cofiring of Coal and Pretreated Biomass. Energy & Fuels, 2019, 33, 4331-4339.	2.5	17
106	A comprehensive study on the transformation of chemical structures in the plastic layers during coking of Australian coals. Journal of Analytical and Applied Pyrolysis, 2020, 152, 104947.	2.6	17
107	Sulfidation of Iron-Based Sorbents Supported on Activated Chars during the Desulfurization of Coke Oven Gases: Effects of Mo and Ce Addition. Energy & Fuels, 2014, 28, 2481-2489.	2.5	16
108	The effects of mineral salt catalysts on selectivity of phenolic compounds in bio-oil during microwave pyrolysis of peanut shell. Korean Journal of Chemical Engineering, 2017, 34, 672-680.	1.2	16

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109	Advancement of ammonia-based post-combustion CO2 capture technology: Process modifications. Fuel Processing Technology, 2020, 210, 106544.	3.7	16
110	Performance and exhaust emissions rate of small-scale turbojet engine running on dual biodiesel blends using Gasturb. Energy, 2021, 232, 120971.	4.5	16
111	Correlation of H2S and COS in the hot coal gas stream and its importance for high temperature desulfurization. Korean Journal of Chemical Engineering, 2011, 28, 1054-1057.	1.2	15
112	Process simulation of a near-zero-carbon-emission power plant using CO 2 as the renewable energy storage medium. International Journal of Greenhouse Gas Control, 2016, 47, 240-249.	2.3	15
113	Influence of biomass pretreatment on co-combustion characteristics with coal and biomass blends. Journal of Mechanical Science and Technology, 2019, 33, 2493-2501.	0.7	15
114	In Situ Synthesis of Pt/TiO₂ Nanosheets on Flexible Ti Mesh for Efficient and Cyclic Phenol Removal. Inorganic Chemistry, 2019, 58, 7303-7309.	1.9	15
115	LBM modelling of supercooled water freezing with inclusion of the recalescence stage. International Journal of Heat and Mass Transfer, 2020, 146, 118839.	2.5	15
116	Pressurized entrained-flow pyrolysis of lignite for enhanced production of hydrogen-rich gas and chemical raw materials. Journal of Analytical and Applied Pyrolysis, 2020, 145, 104741.	2.6	14
117	A Study on Mn-Fe Catalysts Supported on Coal Fly Ash for Low-Temperature Selective Catalytic Reduction of NOX in Flue Gas. Catalysts, 2020, 10, 1399.	1.6	14
118	Synthesis of Super-Long Carbon Nanotubes from Cellulosic Biomass under Microwave Radiation. Nanomaterials, 2022, 12, 737.	1.9	14
119	Effects of kaolinite addition on the thermoplastic behaviour of coking coal during low temperature pyrolysis. Fuel Processing Technology, 2017, 167, 502-510.	3.7	13
120	A DSC study on the impact of low-temperature oxidation on the behavior and drying of water in lignite. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3507-3517.	2.0	13
121	Adverse Effects of Inherent CaO in Coconut Shell-Derived Activated Carbon on Its Performance during Flue Gas Desulfurization. Environmental Science & Technology, 2020, 54, 1973-1981.	4.6	13
122	Using Three-Dimensional Image Analysis Techniques To Understand the Formation of the Plastic Layer during the Heating of Australian Coking Coal Blends. Energy & Fuels, 2020, 34, 3153-3160.	2.5	13
123	Formation of HCN and NH3during the Reforming of Quinoline with Steam in a Fluidized-bed Reactor. Energy & Fuels, 2006, 20, 159-163.	2.5	12
124	Novel Waterâˆ'Gas-Shift Reaction Catalyst from Iron-Loaded Victorian Brown Coalâ€. Energy & Fuels, 2007, 21, 395-398.	2.5	12
125	An experimental study of direct reduction of hematite by lignite char. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1111-1118.	2.0	12
126	Kinetics and Mechanism of Catalytic Oxidation of NO in Coal Combustion Flue Gas over Co-Doped Mnâ€"Ti Oxide Catalyst. Energy & Fuels, 2020, 34, 6052-6058.	2.5	12

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127	Biomass-derived Ta,N,S co-doped CNTs enriched carbon catalyst for efficient electrochemical oxygen reduction. Journal of Alloys and Compounds, 2021, 888, 161479.	2.8	12
128	An Experimental Investigation of the Catalytic Activity of Natural Calcium-Rich Minerals and a Novel Dual-Supported CaOâ€"Ca₁₂Al₁₄O₃₃/Al₂O₃ Catalyst for Biotar Steam Reforming. Energy & Fuels, 2018, 32, 4269-4277.	2.5	11
129	Mechanistic study on the formation of silicon carbide nanowhiskers from biomass cellulose char under microwave. Materials Chemistry and Physics, 2021, 262, 124288.	2.0	11
130	Novel composite nano-materials with 3D multilayer-graphene structures from biomass-based activated-carbon for ultrahigh Li-ion battery performance. Electrochimica Acta, 2021, 390, 138839.	2.6	11
131	Synthesis and photophysical characterization of orange-emitting iridium(III) complexes containing benzothiazole ligand. Synthetic Metals, 2012, 162, 497-502.	2.1	10
132	Understanding the enhanced production of poly-aromatic hydrocarbons during the pyrolysis of lignocellulosic biomass components under pressurized entrained-flow conditions. Fuel Processing Technology, 2021, 213, 106645.	3.7	10
133	A Review of the Numerical Modeling of Pulverized Coal Combustion for High-Efficiency, Low-Emissions (HELE) Power Generation. Energy & Fuels, 2021, 35, 7434-7466.	2.5	10
134	Formation mechanism of nano graphitic structures during microwave catalytic graphitization of activated carbon. Diamond and Related Materials, 2021, 120, 108699.	1.8	10
135	Desulfurization Performance and Kinetics of Potassium Hydroxide-Impregnated Char Sorbents for SO₂ Removal from Simulated Flue Gas. ACS Omega, 2020, 5, 19194-19201.	1.6	9
136	Sulfidation of a Novel Iron Sorbent Supported on Lignite Chars during Hot Coal Gas Desulfurization. Physics Procedia, 2012, 24, 290-296.	1.2	8
137	Structural and electronic engineering of biomass-derived carbon nanosheet composite for electrochemical oxygen reduction. Sustainable Energy and Fuels, 2021, 5, 2114-2126.	2.5	8
138	Structure of Coal-Derived Metal-Supported Few-Layer Graphene Composite Materials Synthesized Using a Microwave-Assisted Catalytic Graphitization Process. Nanomaterials, 2021, 11, 1672.	1.9	8
139	Structural Investigation of the Synthesized Few-Layer Graphene from Coal under Microwave. Nanomaterials, 2022, 12, 57.	1.9	8
140	Absorption mechanism and kinetics of NO by Fe(II) based ethylene glycol (EG)-choline chloride (ChCl) deep eutectic solvents. Separation and Purification Technology, 2021, 275, 119271.	3.9	7
141	A review on research and development of iron-based sorbents for removal of hydrogen sulfide from hot coal gases. Frontiers of Chemical Engineering in China, 2010, 4, 529-535.	0.6	6
142	Controlled Synthesis of BiVO4 Submicrospheres and Their Photocatalytic Properties. Chemistry Letters, 2015, 44, 1098-1100.	0.7	6
143	Investigations on the Synergistic Effects of Oxygen and CaO for Biotars Cracking during Biomass Gasification. Energy & Fuels, 2017, 31, 587-598.	2.5	6
144	A theoretical model for predicting homogeneous ice nucleation rate based on molecular kinetic energy distribution. Journal of Molecular Liquids, 2021, 333, 115959.	2.3	6

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145	Synthesis of 3D graphitic carbon foams via pressurized pyrolysis of Victorian brown coal as anode material for Li-ion battery. Journal of Analytical and Applied Pyrolysis, 2022, 164, 105489.	2.6	6
146	A combined experimental and numerical study of coal briquettes pyrolysis using recycled gas in an industrial scale pyrolyser. Powder Technology, 2022, 404, 117477.	2.1	6
147	An experimental study on synthesis of β-Sialon composites using fly ash and lignite char–preparation and whiskers formation. Journal of the Ceramic Society of Japan, 2015, 123, 542-549.	0.5	5
148	Desulfurization of coke oven gas using char-supported Fe-Zn-Mo catalysts: Mechanisms and thermodynamics. Korean Journal of Chemical Engineering, 2015, 32, 2227-2235.	1.2	5
149	Sulfidation and regeneration of iron-based sorbents supported on activated-chars prepared by pressurized impregnation for coke oven gas desulfurization. Korean Journal of Chemical Engineering, 2016, 33, 2849-2857.	1.2	5
150	Impact of large sized inertinite particles on thermo-swelling and volatile release of coking coals. Fuel Processing Technology, 2019, 193, 63-72.	3.7	5
151	Mechanistic Study on the Removal of NO2 from Flue Gas Using Novel Ethylene Glycol-tetrabutylammonium Bromide Deep Eutectic Solvents. ACS Omega, 2020, 5, 31220-31226.	1.6	5
152	Ice nucleation of water droplet containing solid particles under weak ultrasonic vibration. Ultrasonics Sonochemistry, 2021, 70, 105301.	3.8	5
153	Charâ€supported Feâ€“Znâ€“Cu sorbent prepared by ultrasonicâ€assisted impregnation for simultaneous removal of H₂S and COS from coke oven gas. Environmental Progress and Sustainable Energy, 2016, 35, 352-358.	1.3	4
154	Characterization and behavior of water in lignocellulosic and microalgal biomass for thermochemical conversion. Fuel Processing Technology, 2017, 160, 121-129.	3.7	4
155	Role of microwave during microwave-assisted catalytic reforming of guaiacol, syringolbio-oil as model compounds. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105290.	2.6	4
156	Microwave-Assisted Coal-Derived Few-Layer Graphene as an Anode Material for Lithium-Ion Batteries. Materials, 2021, 14, 6468.	1.3	4
157	Sulfidation Behavior of Fe-Zn Sorbents Supported on Lignite Char during Coke Oven Gas Desulfurization. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 2360-2366.	1.2	2
158	Virtual Special Issue of 2019 International Symposium on Clean Energy and Advanced Carbon Materials (CEAM-2019). Energy & Fuels, 2020, 34, 6521-6522.	2.5	2
159	Comprehensive technical review of the high-efficiency low-emission technology in advanced coal-fired power plants. Reviews in Chemical Engineering, 2023, 39, 363-386.	2.3	2
160	Mechanistic Investigations of Particle Ignition of Pulverized Coals: An Enhanced Numerical Model and Experimental Observations. Energy & Fuels, 2020, 34, 16666-16678.	2.5	2
161	Preface to the special issue on â€œAdvanced Hydrogen Production Technologyâ€ International Journal of Hydrogen Energy, 2019, 44, 14257.	3.8	1
162	Freezing of micro-droplets driven by power ultrasound. Chemical Engineering Science, 2022, 251, 117448.	1.9	1

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163	4-[4,5-Bis(pyridin-2-yl)-1H-imidazol-2-yl]phenol monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o161-o161.	0.2	0
164	Methyl 4-(5-methoxy-1H-indol-3-yl)benzoate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o133-o133.	0.2	0
165	2-(4-Fluorophenyl)quinoxaline. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o1779-o1779.	0.2	0
166	Optical and conductive properties of functional materials extracted from coal tar pitches treated by air oxidization method. Russian Journal of Applied Chemistry, 2017, 90, 625-632.	0.1	0
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