

Shurong Wang

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143
papers

7,334
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83
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157
ext. papers

9,132
ext. citations

6.6
avg, IF

6.59
L-index

#	Paper	IF	Citations
143	Lignocellulosic biomass pyrolysis mechanism: A state-of-the-art review. <i>Progress in Energy and Combustion Science</i> , 2017 , 62, 33-86	33.6	1182
142	Influence of the interaction of components on the pyrolysis behavior of biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011 , 91, 183-189	6	297
141	Comparison of the pyrolysis behavior of lignins from different tree species. <i>Biotechnology Advances</i> , 2009 , 27, 562-7	17.8	287
140	Research on biomass fast pyrolysis for liquid fuel. <i>Biomass and Bioenergy</i> , 2004 , 26, 455-462	5.3	253
139	Pyrolysis behaviors of four lignin polymers isolated from the same pine wood. <i>Bioresource Technology</i> , 2015 , 182, 120-127	11	242
138	Mechanism research on cellulose pyrolysis by Py-GC/MS and subsequent density functional theory studies. <i>Bioresource Technology</i> , 2012 , 104, 722-8	11	220
137	Separation of bio-oil by molecular distillation. <i>Fuel Processing Technology</i> , 2009 , 90, 738-745	7.2	205
136	A critical review of the production and advanced utilization of biochar via selective pyrolysis of lignocellulosic biomass. <i>Bioresource Technology</i> , 2020 , 312, 123614	11	152
135	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TG&TIR analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 108, 78-85	6	138
134	Effect of Torrefaction on Biomass Physicochemical Characteristics and the Resulting Pyrolysis Behavior. <i>Energy & Fuels</i> , 2015 , 29, 5865-5874	4.1	135
133	Pyrolysis behaviors of four O-acetyl-preserved hemicelluloses isolated from hardwoods and softwoods. <i>Fuel</i> , 2015 , 150, 243-251	7.1	126
132	Degradation mechanism of monosaccharides and xylan under pyrolytic conditions with theoretic modeling on the energy profiles. <i>Bioresource Technology</i> , 2013 , 143, 378-83	11	125
131	Influence of torrefaction on the characteristics and pyrolysis behavior of cellulose. <i>Energy</i> , 2017 , 120, 864-871	7.9	122
130	Overview of Computational Fluid Dynamics Simulation of Reactor-Scale Biomass Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2783-2798	8.3	120
129	Effects of torrefaction on hemicellulose structural characteristics and pyrolysis behaviors. <i>Bioresource Technology</i> , 2016 , 218, 1106-14	11	111
128	CO methanation on the catalyst of Ni/MCM-41 promoted with CeO. <i>Science of the Total Environment</i> , 2018 , 625, 686-695	10.2	104
127	Pyrolysis mechanism study of minimally damaged hemicellulose polymers isolated from agricultural waste straw samples. <i>Bioresource Technology</i> , 2015 , 190, 211-8	11	95

126	Improved Fischer-Tropsch synthesis for gasoline over Ru, Ni promoted Co/HZSM-5 catalysts. <i>Fuel</i> , 2013 , 108, 597-603	7.1	94
125	Separation characteristics of biomass pyrolysis oil in molecular distillation. <i>Separation and Purification Technology</i> , 2010 , 76, 52-57	8.3	93
124	Evolution of the chemical composition, functional group, pore structure and crystallographic structure of bio-char from palm kernel shell pyrolysis under different temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 127, 350-359	6	86
123	Bio-oil catalytic reforming without steam addition: Application to hydrogen production and studies on its mechanism. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16038-16047	6.7	85
122	Catalytic steam reforming of bio-oil model compounds for hydrogen production over coal ash supported Ni catalyst. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2018-2025	6.7	85
121	A model of wood flash pyrolysis in fluidized bed reactor. <i>Renewable Energy</i> , 2005 , 30, 377-392	8.1	84
120	Hydrogen production via catalytic reforming of the bio-oil model compounds: Acetic acid, phenol and hydroxyacetone. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18675-18687	6.7	78
119	Comparison of the thermal degradation behaviors and kinetics of palm oil waste under nitrogen and air atmosphere in TGA-FTIR with a complementary use of model-free and model-fitting approaches. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 134, 12-24	6	76
118	Catalytic conversion of carboxylic acids in bio-oil for liquid hydrocarbons production. <i>Biomass and Bioenergy</i> , 2012 , 45, 138-143	5.3	72
117	Properties of Bio-oil from Fast Pyrolysis of Rice Husk. <i>Chinese Journal of Chemical Engineering</i> , 2011 , 19, 116-121	3.2	71
116	Methyl Acetate Synthesis from Dimethyl Ether Carbonylation over Mordenite Modified by Cation Exchange. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 524-533	3.8	69
115	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		68
114	Biogasoline Production from the Co-cracking of the Distilled Fraction of Bio-oil and Ethanol. <i>Energy & Fuels</i> , 2014 , 28, 115-122	4.1	66
113	A Review of Recent Advances in Biomass Pyrolysis. <i>Energy & Fuels</i> , 2020 , 34, 15557-15578	4.1	65
112	Kinetic modeling of biomass components pyrolysis using a sequential and coupling method. <i>Fuel</i> , 2016 , 185, 763-771	7.1	62
111	Biochar: a new promising catalyst support using methanation as a probe reaction. <i>Energy Science and Engineering</i> , 2015 , 3, 126-134	3.4	58
110	Experimental research on acetic acid steam reforming over Co/Fe catalysts and subsequent density functional theory studies. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11122-11131	6.7	58
109	In-depth comparison of the physicochemical characteristics of bio-char derived from biomass pseudo components: Hemicellulose, cellulose, and lignin. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 195-204	6	57

108	Relationship of thermal degradation behavior and chemical structure of lignin isolated from palm kernel shell under different process severities. <i>Fuel Processing Technology</i> , 2018 , 181, 142-156	7.2	57
107	Steam reforming of acetic acid over coal ash supported Fe and Ni catalysts. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 11406-11413	6.7	56
106	Improvement of aromatics production from catalytic pyrolysis of cellulose over metal-modified hierarchical HZSM-5. <i>Fuel Processing Technology</i> , 2018 , 179, 319-323	7.2	56
105	Mechanism study on the pyrolysis of a synthetic EO-4 dimer as lignin model compound. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 2225-2233	5.9	55
104	Conversion of C5 carbohydrates into furfural catalyzed by a Lewis acidic ionic liquid in renewable γ -Valerolactone. <i>Green Chemistry</i> , 2017 , 19, 3869-3879	10	53
103	Co-cracking of bio-oil model compound mixtures and ethanol over different metal oxide-modified HZSM-5 catalysts. <i>Fuel</i> , 2015 , 160, 534-543	7.1	51
102	Methanation of bio-syngas over a biochar supported catalyst. <i>New Journal of Chemistry</i> , 2014 , 38, 4471	3.6	51
101	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	2.8	51
100	Conversion of carbohydrates into 5-hydroxymethylfurfural in a green reaction system of CO ₂ -water-isopropanol. <i>AIChE Journal</i> , 2017 , 63, 257-265	3.6	50
99	A critical review of recent advances in the production of furfural and 5-hydroxymethylfurfural from lignocellulosic biomass through homogeneous catalytic hydrothermal conversion. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 139, 110706	16.2	50
98	Oxygen migration characteristics during bamboo torrefaction process based on the properties of torrefied solid, gaseous, and liquid products. <i>Biomass and Bioenergy</i> , 2019 , 128, 105300	5.3	47
97	Effect of Torrefaction on the Structure and Pyrolysis Behavior of Lignin. <i>Energy & Fuels</i> , 2018 , 32, 4160-4166	4.1	45
96	Structural characterization and pyrolysis behavior of humin by-products from the acid-catalyzed conversion of C6 and C5 carbohydrates. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 118, 259-266	6	45
95	DFT study of bio-oil decomposition mechanism on a Co stepped surface: Acetic acid as a model compound. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 330-339	6.7	42
94	Effect of the Cu/SBA-15 catalyst preparation method on methyl acetate hydrogenation for ethanol production. <i>New Journal of Chemistry</i> , 2014 , 38, 2792	3.6	42
93	Structural Characterization and Pyrolysis Behavior of Cellulose and Hemicellulose Isolated from Softwood <i>Pinus armandii</i> Franch. <i>Energy & Fuels</i> , 2016 , 30, 5721-5728	4.1	39
92	The effect of mild hydrogenation on the catalytic cracking of bio-oil for aromatic hydrocarbon production. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16385-16393	6.7	39
91	Conversion of C5 Carbohydrates into Furfural Catalyzed by SO ₃ H-Functionalized Ionic Liquid in Renewable γ -Valerolactone. <i>Energy & Fuels</i> , 2017 , 31, 3929-3934	4.1	38

90	Conversion of carbohydrates into 5-hydroxymethylfurfural in an advanced single-phase reaction system consisting of water and 1,2-dimethoxyethane. <i>RSC Advances</i> , 2015 , 5, 84014-84021	3.7	38
89	Nitrogen-Doped Hierarchical Porous Biochar Derived from Corn Stalks for Phenol-Enhanced Adsorption. <i>Energy & Fuels</i> , 2019 , 33, 12459-12468	4.1	38
88	Enhancement of CO ₂ Methanation over La-Modified Ni/SBA-15 Catalysts Prepared by Different Doping Methods. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14647-14660	8.3	37
87	Biomass derived N-doped biochar as efficient catalyst supports for CO ₂ methanation. <i>Journal of CO₂ Utilization</i> , 2019 , 34, 733-741	7.6	37
86	Initial pyrolysis mechanism of cellulose revealed by in-situ DRIFT analysis and theoretical calculation. <i>Combustion and Flame</i> , 2019 , 208, 273-280	5.3	35
85	Hydrogen production via steam reforming of acetic acid over biochar-supported nickel catalysts. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18160-18168	6.7	35
84	Mechanism study on the pyrolysis of the typical ether linkages in biomass. <i>Fuel</i> , 2019 , 249, 146-153	7.1	34
83	A comparative research on the catalytic activity of La ₂ O ₃ and Al ₂ O ₃ supported catalysts for acetic acid steam reforming. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3667-3675	6.7	34
82	Effect of La ₂ O ₃ replacement on Al ₂ O ₃ supported nickel catalysts for acetic acid steam reforming. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20540-20548	6.7	33
81	Upgrading of the Acid-Rich Fraction of Bio-oil by Catalytic Hydrogenation-Esterification. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1073-1081	8.3	30
80	Influence of a Lewis acid and a Brønsted acid on the conversion of microcrystalline cellulose into 5-hydroxymethylfurfural in a single-phase reaction system of water and 1,2-dimethoxyethane.. <i>RSC Advances</i> , 2018 , 8, 7235-7242	3.7	30
79	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	0.8	29
78	Influence mechanism of torrefaction on softwood pyrolysis based on structural analysis and kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16428-16435	6.7	29
77	Study on Catalytic Pyrolysis of Manchurian Ash for Production of Bio-Oil. <i>International Journal of Green Energy</i> , 2010 , 7, 300-309	3	27
76	N-doping of biomass by ammonia (NH ₃) torrefaction pretreatment for the production of renewable N-containing chemicals by fast pyrolysis. <i>Bioresource Technology</i> , 2019 , 292, 122034	11	26
75	A novel approach for preparing in-situ nitrogen doped carbon via pyrolysis of bean pulp for supercapacitors. <i>Energy</i> , 2021 , 216, 119227	7.9	26
74	Improved catalytic upgrading of simulated bio-oil via mild hydrogenation over bimetallic catalysts. <i>Fuel Processing Technology</i> , 2018 , 179, 135-142	7.2	25
73	Pyrolysis of wood species based on the compositional analysis. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 548-553	2.8	25

72	Enhancement of aromatics production from catalytic pyrolysis of biomass over HZSM-5 modified by chemical liquid deposition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 134, 439-445	6	24
71	Effects of preparation method on the performance of Ni/Al ₂ O ₃ catalysts for hydrogen production by bio-oil steam reforming. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 168, 10-20	3.2	24
70	A high-performance biochar produced from bamboo pyrolysis with in-situ nitrogen doping and activation for adsorption of phenol and methylene blue. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2872-2880	3.2	24
69	Pyrolysis of Biomass 2016 ,		23
68	Engineering Solid Electrolyte Interface at Nano-Scale for High-Performance Hard Carbon in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100278	15.6	22
67	Enhanced furfural production from biomass and its derived carbohydrates in the renewable butanone-water solvent system. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3208-3218	5.8	21
66	Stepwise Enrichment of Sugars from the Heavy Fraction of Bio-oil. <i>Energy & Fuels</i> , 2016 , 30, 2233-2239	4.9	21
65	Influence of Ni Promotion on Liquid Hydrocarbon Fuel Production over Co/CNT Catalysts. <i>Energy & Fuels</i> , 2013 , 27, 3961-3968	4.1	21
64	Pyrolysis mechanism of hemicellulose monosaccharides in different catalytic processes. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 848-854	2.2	21
63	Mild hydrogenation of bio-oil and its derived phenolic monomers over Pt/Ni bimetal-based catalysts. <i>Applied Energy</i> , 2020 , 275, 115154	10.7	20
62	Mechanistic study of bio-oil catalytic steam reforming for hydrogen production: Acetic acid decomposition. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13212-13224	6.7	20
61	Machine learning prediction of pyrolytic gas yield and compositions with feature reduction methods: Effects of pyrolysis conditions and biomass characteristics. <i>Bioresource Technology</i> , 2021 , 339, 125581	11	20
60	Conversion of Glucose into 5-Hydroxymethylfurfural and Levulinic Acid Catalyzed by SO ₄ 2-/ZrO ₂ in a Biphasic Solvent System. <i>Energy & Fuels</i> , 2020 , 34, 11041-11049	4.1	18
59	Nitrogen and Sulfur Co-doped Hierarchical Porous Biochar Derived from the Pyrolysis of Mantis Shrimp Shell for Supercapacitor Electrodes. <i>Energy & Fuels</i> , 2021 , 35, 1557-1566	4.1	17
58	Catalytic methanation of syngas over Ni-based catalysts with different supports. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 602-608	3.2	16
57	A comparative study of machine learning methods for bio-oil yield prediction - A genetic algorithm-based features selection. <i>Bioresource Technology</i> , 2021 , 335, 125292	11	16
56	Comparative Study on the Dehydration of Biomass-Derived Disaccharides and Polysaccharides to 5-Hydroxymethylfurfural. <i>Energy & Fuels</i> , 2019 , 33, 9985-9995	4.1	14
55	Green Conversion of Microalgae into High-Performance Sponge-Like Nitrogen-Enriched Carbon. <i>ChemElectroChem</i> , 2019 , 6, 646-652	4.3	14

54	Mechanism study of hemicellulose pyrolysis by combining in-situ DRIFT, TGA-PIMS and theoretical calculation. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 4241-4249	5.9	14
53	Steam gasification of land, coastal zone and marine biomass by thermal gravimetric analyzer and a free-fall tubular gasifier: Biochars reactivity and hydrogen-rich syngas production. <i>Bioresource Technology</i> , 2019 , 289, 121495	11	13
52	Density Functional Theory and Microkinetic Studies of Bio-oil Decomposition on a Cobalt Surface: Formic Acid as a Model Compound. <i>Energy & Fuels</i> , 2017 , 31, 1866-1873	4.1	12
51	Janus biocomposite aerogels constituted of cellulose nanofibrils and MXenes for application as single-module solar-driven interfacial evaporators. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18614-18622	13	12
50	Hydrodeoxygenation of Lignin-Derived Monomers and Dimers over a Ru Supported Solid Super Acid Catalyst for Cycloalkane Production. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900136	5.9	11
49	Dehydration of xylose to Furfural in butanone catalyzed by Brønsted-Lewis acidic ionic liquids. <i>Energy Science and Engineering</i> , 2019 , 7, 2237-2246	3.4	11
48	RENEWABLE GASOLINE PRODUCED BY CO-CRACKING OF METHANOL AND KETONES IN BIO-OIL. <i>BioResources</i> , 2012 , 7,	1.3	11
47	Bio-MCM-41: a high-performance catalyst support derived from pyrolytic biochar. <i>New Journal of Chemistry</i> , 2018 , 42, 12394-12402	3.6	10
46	Explosion characteristics of a pyrolysis biofuel derived from rice husk. <i>Journal of Hazardous Materials</i> , 2019 , 369, 324-333	12.8	10
45	Enhancement of furfural formation from C5 carbohydrates by NaCl in a green reaction system of CO ₂ /water/propyl alcohol. <i>Energy Science and Engineering</i> , 2017 , 5, 208-216	3.4	10
44	Experimental and Kinetic Study of Arabinose Conversion to Furfural in Renewable Butanone/Water Solvent Mixture Catalyzed by Lewis Acidic Ionic Liquid Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17088-17097	3.9	9
43	Selective Fischer-Tropsch synthesis for gasoline production over Y, Ce, or La-modified Co/H ₂ . <i>Fuel</i> , 2020 , 262, 116490	7.1	9
42	Green conversion of bamboo chips into high-performance phenol adsorbent and supercapacitor electrodes by simultaneous activation and nitrogen doping. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 155, 105072	6	9
41	A new insight into pyrolysis mechanism of three typical actual biomass: The influence of structural differences on pyrolysis process. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 156, 105184	6	9
40	Influence of inlet gas composition on dimethyl ether carbonylation and the subsequent hydrogenation of methyl acetate in two-stage ethanol synthesis. <i>New Journal of Chemistry</i> , 2016 , 40, 6460-6466	3.6	9
39	Aromatic Hydrocarbon Production from Bio-Oil by a Dual-Stage Hydrogenation-Cocacking Process: Furfural as a Model Compound. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10839-10849	3.9	9
38	Effect of Ni Precipitation Method on CO Methanation over Ni/TiO ₂ Catalysts. <i>Chemical Research in Chinese Universities</i> , 2018 , 34, 296-301	2.2	8
37	Experimental study of the influence of acid wash on cellulose pyrolysis. <i>Frontiers of Chemical Engineering in China</i> , 2007 , 1, 35-39		8

36	The catalytic properties evolution of HZSM-5 in the conversion of methanol to gasoline. <i>RSC Advances</i> , 2016 , 6, 82515-82522	3-7	7
35	Comparative Life Cycle Assessment of Ethanol Synthesis from Corn Stover by Direct and Indirect Thermochemical Conversion Processes. <i>Energy & Fuels</i> , 2015 , 29, 7998-8005	4-1	7
34	Production of Bio-gasoline by Co-cracking of Acetic Acid in Bio-oil and Ethanol. <i>Chinese Journal of Chemical Engineering</i> , 2014 , 22, 98-103	3-2	7
33	Experimental study and life cycle assessment of CO ₂ methanation over biochar supported catalysts. <i>Applied Energy</i> , 2020 , 280, 115919	10-7	7
32	Conversion of Xylose to Furfural Catalyzed by Carbon-Based Solid Acid Prepared from Pectin. <i>Energy & Fuels</i> , 2021 , 35, 9961-9969	4-1	7
31	Density functional theory study of ethanol synthesis from dimethyl ether and syngas over cobalt catalyst. <i>Molecular Catalysis</i> , 2017 , 432, 115-124	3-3	6
30	Review of Bio-oil Upgrading Technologies and Experimental Study on Emulsification of Bio-oil and Diesel 2010 ,		6
29	DFT-D2 Study of the Adsorption of Bio-Oil Model Compounds in HZSM-5: C ₁ -C ₄ Carboxylic Acids. <i>Catalysis Letters</i> , 2016 , 146, 2015-2024	2-8	6
28	Critical Review on the Preparation of Platform Compounds from Biomass or Saccharides via Hydrothermal Conversion over Carbon-Based Solid Acid Catalysts. <i>Energy & Fuels</i> , 2021 , 35, 14462-14483	4-1	6
27	Simulation Study of Thermochemical Process from Biomass to Higher Alcohols. <i>Energy & Fuels</i> , 2016 , 30, 9440-9450	4-1	5
26	A novel approach for preparing nitrogen-doped porous nanocomposites for supercapacitors. <i>Fuel</i> , 2021 , 304, 121449	7-1	5
25	Selective hydrodeoxygenation of lignin-derived phenolics to cycloalkanes over highly stable NiAl ₂ O ₄ spinel-supported bifunctional catalysts. <i>Chemical Engineering Journal</i> , 2022 , 429, 132181	14-7	4
24	Experimental Research on Catalytic Esterification of Bio-Oil Volatile Fraction 2010 ,		3
23	Commercialization and Challenges for the Next Generation of Biofuels: Biomass Fast Pyrolysis 2010 ,		3
22	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		3
21	Highly Selective Hydrodeoxygenation of Lignin to Naphthenes over Three-Dimensional Flower-like Ni ₂ P Derived from Hydrotalcite. <i>ACS Catalysis</i> , 2022 , 12, 1338-1356	13-1	3
20	Green Conversion of Microalgae into High-Performance Sponge-like Nitrogen-Enriched Carbon. <i>ChemElectroChem</i> , 2019 , 6, 602-602	4-3	3
19	Dual -functional carbon-based solid acid-induced hydrothermal conversion of biomass saccharides: catalyst rational design and kinetic analysis. <i>Green Chemistry</i> ,	10	3

18	Selective Fischer-Tropsch synthesis for jet fuel production over Y3+ modified Co/H-Zn catalysts. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3528-3536	5.8	2
17	Synthetic fuels and chemicals production from biomass synthesis gas 2010 ,		2
16	Characterization and Analysis of Char Produced by Biomass Fast Pyrolysis 2010 ,		2
15	Recent advances in supercritical water gasification of biowaste catalyzed by transition metal-based catalysts for hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 154, 111831	16.2	2
14	Reaction kinetics, mechanism, and product analysis of the iron catalytic graphitization of cellulose. <i>Journal of Cleaner Production</i> , 2021 , 329, 129735	10.3	2
13	Selective Demethoxylation of Lignin-Derived Methoxyphenols to Phenols over Lignin-Derived-Biochar-Supported Mo2C Catalysts. <i>Energy & Fuels</i> ,	4.1	2
12	Study on ZSM-5 catalytic pyrolysis mechanism of cellulose based on the Py-GC/MS and the density functional theory. <i>Combustion and Flame</i> , 2022 , 241, 112131	5.3	2
11	Ethylene glycol and ethanol synthesis from dimethyl oxalate hydrogenation on the Cu/ZnO/SiO2 catalysts 2011 ,		1
10	Catalytic Cracking of Ketone Components in Biomass Pyrolysis Oil 2010 ,		1
9	Experimental Study of the Effect of Spray Medium on the Collection of Bio-Oil Produced from Biomass Fast Pyrolysis 2009 ,		1
8	Catalytic Reforming of the Aqueous Phase Derived from Diluted Hydrogen Peroxide Oxidation of Waste Polyethylene for Hydrogen Production. <i>ChemSusChem</i> , 2021 , 14, 4270-4279	8.3	1
7	Preparation of Nitrogen and Sulfur Co-doped and Interconnected Hierarchical Porous Biochar by Pyrolysis of Mantis Shrimp in CO2 Atmosphere for Symmetric Supercapacitors. <i>ChemElectroChem</i> , 2021 , 8, 3745	4.3	1
6	Direct conversion of syngas to gasoline ranged olefins over Na impellent Fe@NaZSM-5 catalyst. <i>Fuel</i> , 2022 , 308, 121938	7.1	1
5	Pyrolysis of boron-crosslinked lignin: influence on lignin softening and product properties.. <i>Bioresource Technology</i> , 2022 , 127218	11	1
4	Preparation of energy platform chemicals by hydrothermal conversion of citrus peel. <i>Energy Science and Engineering</i> , 2021 , 9, 1033	3.4	0
3	Sodium alginate-silica composite aerogels from rice husk ash for efficient absorption of organic pollutants. <i>Biomass and Bioenergy</i> , 2022 , 159, 106424	5.3	0
2	EDTA chemical directly orient CO2 hydrogenation towards olefins. <i>Chemical Engineering Journal</i> , 2022 , 438, 135597	14.7	0
1	Biomass Processing via Pyrolysis 2021 , 147-180		

