Lu Lin

List of Publications by Year
in descending order

204 papers	10,896 citations	26626 56 h-index	38392 95 g-index
210 all docs	210 docs citations	210 times ranked	9198 citing authors

#	Article	IF	Citations
1	Synthesis of Î³-Valerolactone by Hydrogenation of Biomass-derived Levulinic Acid over Ru/C Catalyst. Energy & Fuels, 2009, 23, 3853-3858.	5.1	349
2	Catalytic conversion of biomass-derived carbohydrates into fuels and chemicals via furanic aldehydes. RSC Advances, 2012, 2, 11184.	3.6	329
3	Recent advances in catalytic transformation of biomass-derived 5-hydroxymethylfurfural into the innovative fuels and chemicals. Renewable and Sustainable Energy Reviews, 2017, 74, 230-257.	16.4	308
4	Catalytic Zirconium/Hafnium-Based Metalâ€“Organic Frameworks. ACS Catalysis, 2017, 7, 997-1014.	11.2	288
5	Conversion of biomass to Î³-valerolactone by catalytic transfer hydrogenation of ethyl levulinate over metal hydroxides. Applied Catalysis B: Environmental, 2014, 147, 827-834.	20.2	285
6	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2696-2706.	6.8	269
7	Catalytic Conversion of Cellulose to Levulinic Acid by Metal Chlorides. Molecules, 2010, 15, 5258-5272.	3.8	259
8	Production of Î³-valerolactone from lignocellulosic biomass for sustainable fuels and chemicals supply. Renewable and Sustainable Energy Reviews, 2014, 40, 608-620.	16.4	232
9	Chemocatalytic hydrolysis of cellulose into glucose over solid acid catalysts. Applied Catalysis B: Environmental, 2015, 174-175, 225-243.	20.2	216
10	Catalytic Advances in the Production and Application of Biomass-Derived 2,5-Dihydroxymethylfuran. ACS Catalysis, 2018, 8, 2959-2980.	11.2	210
11	Nanosizing a Metalâ€“Organic Framework Enzyme Carrier for Accelerating Nerve Agent Hydrolysis. ACS Nano, 2016, 10, 9174-9182.	14.6	202
12	Zeolite-supported metal catalysts for selective hydrodeoxygenation of biomass-derived platform molecules. Green Chemistry, 2019, 21, 3744-3768.	9.0	200
13	Chemoselective hydrogenation of biomass derived 5-hydroxymethylfurfural to diols: Key intermediates for sustainable chemicals, materials and fuels. Renewable and Sustainable Energy Reviews, 2017, 77, 287-296.	16.4	165
14	Conversion of carbohydrates biomass into levulinate esters using heterogeneous catalysts. Applied Energy, 2011, 88, 4590-4596.	10.1	162
15	Solid acid catalyzed glucose conversion to ethyl levulinate. Applied Catalysis A: General, 2011, 397, 259-265.	4.3	159
16	Benchmark Study of Hydrogen Storage in Metalâ€“Organic Frameworks under Temperature and Pressure Swing Conditions. ACS Energy Letters, 2018, 3, 748-754.	17.4	147
17	Zeolite-promoted transformation of glucose into 5-hydroxymethylfurfural in ionic liquid. Chemical Engineering Journal, 2014, 244, 137-144.	12.7	144
18	Magnetic lignin-derived carbonaceous catalyst for the dehydration of fructose into 5-hydroxymethylfurfural in dimethylsulfoxide. Chemical Engineering Journal, 2015, 263, 299-308.	12.7	140

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19	A sustainable woody biomass biorefinery. Biotechnology Advances, 2012, 30, 785-810.	11.7	137
20	Conversion of biomass-derived ethyl levulinate into Î³-valerolactone via hydrogen transfer from supercritical ethanol over a ZrO2 catalyst. RSC Advances, 2013, 3, 10277.	3.6	137
21	Selective Transformation of 5-Hydroxymethylfurfural into the Liquid Fuel 2,5-Dimethylfuran over Carbon-Supported Ruthenium. Industrial & Engineering Chemistry Research, 2014, 53, 3056-3064.	3.7	137
22	Catalytic transfer hydrogenation of biomass-derived 5-hydroxymethyl furfural to the building block 2,5-bishydroxymethyl furan. Green Chemistry, 2016, 18, 1080-1088.	9.0	136
23	Chemoselective Hydrogenation of Biomass-Derived 5-Hydroxymethylfurfural into the Liquid Biofuel 2,5-Dimethylfuran. Industrial & Engineering Chemistry Research, 2014, 53, 9969-9978.	3.7	128
24	Conversion of D-xylose into furfural with mesoporous molecular sieve MCM-41 as catalyst and butanol as the extraction phase. Biomass and Bioenergy, 2012, 39, 73-77.	5.7	126
25	Advances in catalytic production of bio-based polyester monomer 2,5-furandicarboxylic acid derived from lignocellulosic biomass. Carbohydrate Polymers, 2015, 130, 420-428.	10.2	118
26	In situ fabrication of a perfect Pd/ZnO@ZIF-8 coreâ€“shell microsphere as an efficient catalyst by a ZnO support-induced ZIF-8 growth strategy. Nanoscale, 2015, 7, 7615-7623.	5.6	118
27	Catalytic conversion of carbohydrates into 5-hydroxymethylfurfural over cellulose-derived carbonaceous catalyst in ionic liquid. Bioresource Technology, 2013, 148, 501-507.	9.6	110
28	Green process for production of 5-hydroxymethylfurfural from carbohydrates with high purity in deep eutectic solvents. Industrial Crops and Products, 2017, 99, 1-6.	5.2	109
29	In-situ synthesis of single-atom Ir by utilizing metal-organic frameworks: An acid-resistant catalyst for hydrogenation of levulinic acid to Î³-valerolactone. Journal of Catalysis, 2019, 373, 161-172.	6.2	109
30	Hydrolysis of Cotton Fiber Cellulose in Formic Acid. Energy & Fuels, 2007, 21, 2386-2389.	5.1	108
31	Earth-abundant 3d-transition-metal catalysts for lignocellulosic biomass conversion. Chemical Society Reviews, 2021, 50, 6042-6093.	38.1	104
32	Vitamin C-Assisted Synthesized Mnâ€“Co Oxides with Improved Oxygen Vacancy Concentration: Boosting Lattice Oxygen Activity for the Air-Oxidation of 5-(Hydroxymethyl)furfural. ACS Catalysis, 2021, 11, 7828-7844.	11.2	103
33	Perovskite-type Oxide LaMnO3: An Efficient and Recyclable Heterogeneous Catalyst for the Wet Aerobic Oxidation of Lignin to Aromatic Aldehydes. Catalysis Letters, 2008, 126, 106-111.	2.6	102
34	Efficient Conversion of Glucose into 5-Hydroxymethylfurfural by Chromium(III) Chloride in Inexpensive Ionic Liquid. Industrial & Engineering Chemistry Research, 2012, 51, 1099-1104.	3.7	101
35	Efficient Production of Furan Derivatives from a Sugar Mixture by Catalytic Process. Energy & Fuels, 2012, 26, 4560-4567.	5.1	99
36	Activity and Stability of Perovskite-Type Oxide LaCoO₃Catalyst in Lignin Catalytic Wet Oxidation to Aromatic Aldehydes Process. Energy & Fuels, 2009, 23, 19-24.	5.1	96

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37	Catalytic transfer hydrogenation of biomass-derived furfural to furfuryl alcohol over in-situ prepared nano Cu-Pd/C catalyst using formic acid as hydrogen source. Journal of Catalysis, 2018, 368, 69-78.	6.2	95
38	Dilute sulfuric acid hydrolysis of sugar maple wood extract at atmospheric pressure. Bioresource Technology, 2010, 101, 3586-3594.	9.6	94
39	Catalysis of Cu-Doped Co-Based Perovskite-Type Oxide in Wet Oxidation of Lignin To Produce Aromatic Aldehydes. Energy & Fuels, 2010, 24, 4797-4802.	5.1	93
40	Wet Aerobic Oxidation of Lignin into Aromatic Aldehydes Catalysed by a Perovskite-type Oxide: LaFe1-xCuxO3 (x=0, 0.1, 0.2). Molecules, 2009, 14, 2747-2757.	3.8	91
41	Reducing Sugar Content in Hemicellulose Hydrolysate by DNS Method: A Revisit. Journal of Biobased Materials and Bioenergy, 2008, 2, 156-161.	0.3	88
42	Extraction of cellulose nanocrystals using a recyclable deep eutectic solvent. Cellulose, 2020, 27, 1301-1314.	4.9	84
43	Dissolution of Microcrystalline Cellulose in Phosphoric Acidâ€"Molecular Changes and Kinetics. Molecules, 2009, 14, 5027-5041.	3.8	82
44	Isolation and characterization of wheat straw lignin with a formic acid process. Bioresource Technology, 2010, 101, 2311-2316.	9.6	82
45	Extremely low sulfuric acid catalyst system for synthesis of methyl levulinate from glucose. Industrial Crops and Products, 2012, 40, 136-144.	5.2	80
46	Highly Selective Oxidation of Methane into Methanol over Cu-Promoted Monomeric Fe/ZSM-5. ACS Catalysis, 2021, 11, 6684-6691.	11.2	73
47	Growth of ZnO self-converted 2D nanosheet zeolitic imidazolate framework membranes by an ammonia-assisted strategy. Nano Research, 2018, 11, 1850-1860.	10.4	72
48	Efficient Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran over Fe₂O₃-Promoted MnO₂ Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 7812-7822.	6.7	71
49	Catalytic hydrolysis of microcrystalline and rice straw-derived cellulose over a chlorine-doped magnetic carbonaceous solid acid. Industrial Crops and Products, 2016, 84, 408-417.	5.2	70
50	An effective pathway for converting carbohydrates to biofuel 5-ethoxymethylfurfural via 5-hydroxymethylfurfural with deep eutectic solvents (DESs). Industrial Crops and Products, 2018, 112, 18-23.	5.2	69
51	Zeolite-Encapsulated Cu Nanoparticles for the Selective Hydrogenation of Furfural to Furfuryl Alcohol. ACS Catalysis, 2021, 11, 10246-10256.	11.2	69
52	Bioprocess considerations for microalgal-based wastewater treatment and biomass production. Renewable and Sustainable Energy Reviews, 2015, 42, 1385-1392.	16.4	64
53	Effect of phosphoric acid pretreatment on enzymatic hydrolysis of microcrystalline cellulose. Biotechnology Advances, 2010, 28, 613-619.	11.7	62
54	Inâ€…Situ Generated Catalyst System to Convert Biomassâ€Derived Levulinic Acid to Î³â€Valerolactone. ChemCatChem, 2015, 7, 1372-1379.	3.7	62

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55	Depolymerization of Cellulolytic Enzyme Lignin for the Production of Monomeric Phenols over Raney Ni and Acidic Zeolite Catalysts. Energy & Fuels, 2015, 29, 1662-1668.	5.1	61
56	Maltodextrin: A consummate carrier for spray-drying of xylooligosaccharides. Food Research International, 2018, 106, 383-393.	6.2	59
57	Catalytic transfer hydrogenation of biomass-derived 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over tunable Zr-based bimetallic catalysts. Catalysis Science and Technology, 2018, 8, 4474-4484.	4.1	58
58	Eco-friendly polymer nanocomposite hydrogel enhanced by cellulose nanocrystal and graphitic-like carbon nitride nanosheet. Chemical Engineering Journal, 2020, 386, 124021.	12.7	58
59	Changes of the surface structure of corn stalk in the cooking process with active oxygen and MgO-based solid alkali as a pretreatment of its biomass conversion. Bioresource Technology, 2012, 103, 432-439.	9.6	57
60	Microalgae for biobutanol production â€“ Technology evaluation and value proposition. Algal Research, 2018, 31, 367-376.	4.6	57
61	Inâ€…Situ Catalytic Hydrogenation of Biomassâ€Derived Methyl Levulinate to Î³â€Valerolactone in Methanol. ChemSusChem, 2015, 8, 1601-1607.	6.8	56
62	Insights into the active sites and catalytic mechanism of oxidative esterification of 5-hydroxymethylfurfural by metal-organic frameworks-derived N-doped carbon. Journal of Catalysis, 2020, 381, 570-578.	6.2	56
63	New Pd/SiO₂@ZIF-8 Coreâ€“Shell Catalyst with Selective, Antipoisoning, and Antileaching Properties for the Hydrogenation of Alkenes. Industrial & Engineering Chemistry Research, 2014, 53, 10906-10913.	3.7	55
64	Cascade conversion of furfural to fuel bioadditive ethyl levulinate over bifunctional zirconium-based catalysts. Renewable Energy, 2020, 147, 916-923.	8.9	54
65	Cu¹â€“Cu⁰ bicomponent CuNPs@ZIF-8 for highly selective hydrogenation of biomass derived 5-hydroxymethylfurfural. Green Chemistry, 2019, 21, 4319-4323.	9.0	52
66	Cellulose nanocrystalline hydrogel based on a choline chloride deep eutectic solvent as wearable strain sensor for human motion. Carbohydrate Polymers, 2021, 255, 117443.	10.2	52
67	Clean conversion of cellulose into fermentable glucose. Biotechnology Advances, 2009, 27, 625-632.	11.7	48
68	Performance and emission characteristics of a diesel engine running on optimized ethyl levulinateâ€“biodieselâ€“diesel blends. Energy, 2016, 95, 29-40.	8.8	48
69	Catalytic Transfer Hydrogenolysis/Hydrogenation of Biomass-Derived 5-Formyloxymethylfurfural to 2, 5-Dimethylfuran Over Niâ€“Cu Bimetallic Catalyst with Formic Acid As a Hydrogen Donor. Industrial & Engineering Chemistry Research, 2019, 58, 5414-5422.	3.7	47
70	Recent Developments in Metal-Based Catalysts for the Catalytic Aerobic Oxidation of 5-Hydroxymethyl-Furfural to 2,5-Furandicarboxylic Acid. Catalysts, 2020, 10, 120.	3.5	47
71	Stretchable, freezing-tolerant conductive hydrogel for wearable electronics reinforced by cellulose nanocrystals toward multiple hydrogen bonding. Carbohydrate Polymers, 2022, 280, 119018.	10.2	47
72	12-Tungstophosphoric acid/boric acid as synergetic catalysts for the conversion of glucose into 5-hydroxymethylfurfural in ionic liquid. Biomass and Bioenergy, 2012, 47, 289-294.	5.7	46

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73	Effective selectivity conversion of glucose to furan chemicals in the aqueous deep eutectic solvent. Renewable Energy, 2021, 164, 23-33.	8.9	43
74	Inducing Electron Dissipation of Pyridinic N Enabled by Single Niâ€“N₄ Sites for the Reduction of Aldehydes/Ketones with Ethanol. ACS Catalysis, 2021, 11, 6398-6405.	11.2	43
75	Green catalytic conversion of bio-based sugars to 5-chloromethyl furfural in deep eutectic solvent, catalyzed by metal chlorides. RSC Advances, 2016, 6, 27004-27007.	3.6	42
76	Synthesis of MCMâ€41â€Supported Metal Catalysts in Deep Eutectic Solvent for the Conversion of Carbohydrates into 5â€Hydroxymethylfurfural. ChemSusChem, 2019, 12, 978-982.	6.8	42
77	Development of Betaineâ€Based Sustainable Catalysts for Green Conversion of Carbohydrates and Biomass into 5â€Hydroxymethylfurfural. ChemSusChem, 2019, 12, 495-502.	6.8	42
78	Catalytic Conversion of Biomass to Furanic Derivatives with Deep Eutectic Solvents. ChemSusChem, 2021, 14, 1496-1506.	6.8	42
79	Conversion of Biomass-Derived Furfuryl Alcohol into Ethyl Levulinate Catalyzed by Solid Acid in Ethanol. BioResources, 2014, 9, 2634-2644.	1.0	41
80	A flexible Cu-based catalyst system for the transformation of fructose to furanyl ethers as potential bio-fuels. Applied Catalysis B: Environmental, 2019, 258, 117793.	20.2	41
81	Recent advances on sustainable cellulosic materials for pharmaceutical carrier applications. Carbohydrate Polymers, 2020, 244, 116492.	10.2	40
82	Catalytic conversion of glucose into 5-hydroxymethylfurfural using double catalysts in ionic liquid. Journal of the Taiwan Institute of Chemical Engineers, 2012, 43, 718-723.	5.3	38
83	Efficient synthesis of bio-monomer 2,5-furandicarboxylic acid from concentrated 5-hydroxymethylfurfural or fructose in DMSO/H2O mixed solvent. Journal of Industrial and Engineering Chemistry, 2019, 77, 209-214.	5.8	38
84	Catalyst design strategy toward the efficient heterogeneously-catalyzed selective oxidation of 5-hydroxymethylfurfural. Green Energy and Environment, 2022, 7, 900-932.	8.7	38
85	Stability of Soluble Dialdehyde Cellulose and the Formation of Hollow Microspheres: Optimization and Characterization. ACS Sustainable Chemistry and Engineering, 2019, 7, 2151-2159.	6.7	37
86	Enhanced Catalytic Performance through In Situ Encapsulation of Ultrafine Ru Clusters within a High-Aluminum Zeolite. ACS Catalysis, 2022, 12, 1847-1856.	11.2	37
87	Oxidative Decarboxylation of Levulinic Acid by Cupric Oxides. Molecules, 2010, 15, 7946-7960.	3.8	36
88	Cooking with Active Oxygen and Solid Alkali: A Promising Alternative Approach for Lignocellulosic Biorefineries. ChemSusChem, 2017, 10, 3982-3993.	6.8	36
89	Efficient synthesis of glucose into 5-hydroxymethylfurfural with SO42â^'/ZrO2 modified H+ zeolites in different solvent systems. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 431-438.	5.3	35
90	Catalytic transfer hydrogenation of biomass-derived furfural to furfuryl alcohol with formic acid as hydrogen donor over CuCs-MCM catalyst. Chinese Chemical Letters, 2021, 32, 1186-1190.	9.0	34

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91	Stable and efficient CuCr catalyst for the solvent-free hydrogenation of biomass derived ethyl levulinate to Î³-valerolactone as potential biofuel candidate. Fuel, 2016, 175, 232-239.	6.4	33
92	Oxidative Esterification of 5â€Hydroxymethylfurfural with an Nâ€doped Carbonâ€supported CoCu Bimetallic Catalyst. ChemSusChem, 2020, 13, 4151-4158.	6.8	33
93	Oxidative Decarboxylation of Levulinic Acid by Silver(I)/Persulfate. Molecules, 2011, 16, 2714-2725.	3.8	32
94	Preparation of 5â€(Aminomethyl)â€2â€furanmethanol by direct reductive amination of 5â€Hydroxymethylfurfural with aqueous ammonia over the Ni/SBAâ€15 catalyst. Journal of Chemical Technology and Biotechnology, 2018, 93, 3028-3034.	3.2	32
95	Preparation of Nanocellulose with High-Pressure Homogenization from Pretreated Biomass with Cooking with Active Oxygen and Solid Alkali. ACS Sustainable Chemistry and Engineering, 2019, 7, 9378-9386.	6.7	32
96	Hydrolysis Behavior of Bamboo Fiber in Formic Acid Reaction System. Journal of Agricultural and Food Chemistry, 2010, 58, 2253-2259.	5.2	31
97	Novel Process for the Extraction of Ethyl Levulinate by Toluene with Less Humins from the Ethanolysis Products of Carbohydrates. Energy & Fuels, 2014, 28, 4251-4255.	5.1	31
98	Catalytic hydrogenation and oxidation of biomass-derived levulinic acid. BioResources, 2011, 6, 686-699.	1.0	31
99	Highly Flexible and Broad-Range Mechanically Tunable All-Wood Hydrogels with Nanoscale Channels via the Hofmeister Effect for Human Motion Monitoring. Nano-Micro Letters, 2022, 14, 84.	27.0	31
100	Aqueousâ€Natural Deep Eutectic Solventâ€Enhanced 5â€Hydroxymethylfurfural Production from Glucose, Starch, and Food Wastes. ChemSusChem, 2022, 15, .	6.8	30
101	One-pot conversion of biomass-derived carbohydrates into 5-[(formyloxy)methyl]furfural: A novel alternative platform chemical. Industrial Crops and Products, 2016, 83, 408-413.	5.2	29
102	Synthesis of bis(amino)furans from biomass based 5-hydroxymethyl furfural. Journal of Energy Chemistry, 2018, 27, 209-214.	12.9	28
103	Oxidation of 5-[(Formyloxy)methyl]furfural to Maleic Anhydride with Atmospheric Oxygen Using Î±-MnO₂/Cu(NO₃)₂ as Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 7901-7908.	6.7	28
104	Manganese catalyzed transfer hydrogenation of biomass-derived aldehydes: Insights to the catalytic performance and mechanism. Journal of Catalysis, 2020, 389, 157-165.	6.2	28
105	Highly dispersed Co/N-rich carbon nanosheets for the oxidative esterification of biomass-derived alcohols: Insights into the catalytic performance and mechanism. Journal of Catalysis, 2021, 397, 148-155.	6.2	28
106	Conversion of Glucose in CPLâ€LiCl to 5â€Hydroxymethylfurfural. Chinese Journal of Chemistry, 2010, 28, 1773-1776.	4.9	26
107	Cooking with active oxygen and solid alkali facilitates lignin degradation in bamboo pretreatment. Sustainable Energy and Fuels, 2018, 2, 2206-2214.	4.9	26
108	Bioethanol fermentation by recombinant E. coli FBR5 and its robust mutant FBHW using hot-water wood extract hydrolyzate as substrate. Biotechnology Advances, 2010, 28, 602-608.	11.7	25

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109	Characterization of changes of lignin structure in the processes of cooking with solid alkali and different active oxygen. Bioresource Technology, 2012, 123, 49-54.	9.6	25
110	Synthesis, isolation and characterization of methyl levulinate from cellulose catalyzed by extremely low concentration acid. Journal of Energy Chemistry, 2013, 22, 895-901.	12.9	25
111	Recent progress in the development of advanced biofuel 5-ethoxymethylfurfural. BMC Energy, 2020, 2, .	6.3	25
112	Stable and Biocompatible Cellulose-Based CaCO₃ Microspheres for Tunable pH-Responsive Drug Delivery. ACS Sustainable Chemistry and Engineering, 2019, 7, 19824-19831.	6.7	24
113	An efficient approach to produce 2,5â€diformylfuran from 5â€hydroxymethylfurfural using air as oxidant. Journal of Chemical Technology and Biotechnology, 2019, 94, 3832-3838.	3.2	24
114	The structural changes of the bagasse hemicelluloses during the cooking process involving active oxygen and solid alkali. Carbohydrate Research, 2012, 359, 65-69.	2.3	23
115	Effect of metal salts existence during the acid-catalyzed conversion of glucose in methanol medium. Catalysis Communications, 2015, 59, 10-13.	3.3	23
116	One-pot tandem conversion of fructose into biofuel components with in-situ generated catalyst system. Journal of Energy Chemistry, 2018, 27, 375-380.	12.9	23
117	Facile and Efficient Two-Step Formation of a Renewable Monomer 2,5-Furandicarboxylic Acid from Carbohydrates over the NiO_{<i>x</i>} Catalyst. Industrial & Engineering Chemistry Research, 2020, 59, 4895-4904.	3.7	23
118	Structural Characterization of Lignin in the Process of Cooking of Cornstalk with Solid Alkali and Active Oxygen. Journal of Agricultural and Food Chemistry, 2012, 60, 4656-4661.	5.2	22
119	Life cycle assessment of energy consumption and environmental emissions for cornstalk-based ethyl levulinate. Applied Energy, 2016, 183, 170-181.	10.1	22
120	Highly Efficient Reductive Etherification of 5â€Hydroxymethylfurfural to 2,5â€Bis(Alkoxymethyl)Furans as Biodiesel Components over Zrâ€SBA Catalyst. Energy Technology, 2019, 7, 1801071.	3.8	22
121	Direct conversion of biomass derived <scp>l</scp>-rhamnose to 5-methylfurfural in water in high yield. Green Chemistry, 2020, 22, 5984-5988.	9.0	22
122	Oneâ€Pot Synthesis of Renewable Phthalic Anhydride from 5â€Hydroxymethfurfural by using MoO₃/Cu(NO₃)₂ as Catalyst. ChemSusChem, 2020, 13, 640-646.	6.8	21
123	<i>In Situ</i> Encapsulated CuCo@M-SiO₂ for Higher Alcohol Synthesis from Biomass-Derived Syngas. ACS Sustainable Chemistry and Engineering, 2021, 9, 5910-5923.	6.7	21
124	5-Aminolevulinic acid promotes arachidonic acid biosynthesis in the red microalga Porphyridium purpureum. Biotechnology for Biofuels, 2017, 10, 168.	6.2	20
125	Synthesis of renewable monomer 2, 5-bishydroxymethylfuran from highly concentrated 5-hydroxymethylfurfural in deep eutectic solvents. Journal of Industrial and Engineering Chemistry, 2020, 81, 93-98.	5.8	20
126	Fractionation and characterization of physicochemical and structural features of corn stalk hemicelluloses from yellow liquor of active oxygen cooking. Industrial Crops and Products, 2013, 44, 542-548.	5.2	19

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127	Domino transformation of furfural to Î³-valerolactone over SAPO-34 zeolite supported zirconium phosphate catalysts with tunable Lewis and BrÃ¸nsted acid sites. Molecular Catalysis, 2021, 506, 111538.	2.0	19
128	Anisotropic, strong, self-adhesive and strain-sensitive hydrogels enabled by magnetically-oriented cellulose/polydopamine nanocomposites. Carbohydrate Polymers, 2022, 276, 118783.	10.2	19
129	Using a trait-based approach to optimize mixotrophic growth of the red microalga Porphyridium purpureum towards fatty acid production. Biotechnology for Biofuels, 2018, 11, 273.	6.2	18
130	Production of levulinic acid and ethyl levulinate from cellulosic pulp derived from the cooking of lignocellulosic biomass with active oxygen and solid alkali. Korean Journal of Chemical Engineering, 2019, 36, 740-752.	2.7	18
131	Choline chloride-promoted efficient solvent-free hydrogenation of biomass-derived levulinic acid to Î³-valerolactone over Ru/C. Green Chemistry, 2021, 23, 1983-1988.	9.0	18
132	The Crossâ€Linking Mechanism and Applications of Catecholâ€“Metal Polymer Materials. Advanced Materials Interfaces, 2021, 8, 2100239.	3.7	18
133	A self-healing water-dissolvable and stretchable cellulose-hydrogel for strain sensor. Cellulose, 2022, 29, 341-354.	4.9	18
134	A durable Ni/La-Y catalyst for efficient hydrogenation of Î³-valerolactone into pentanoic biofuels. Journal of Energy Chemistry, 2022, 70, 347-355.	12.9	18
135	Effects of Zr/Ti molar ratio in SO2â^'4/ZrO2-TiO2 calcined at different temperatures on its surface properties and glucose reactivity in near-critical methanol. Journal of Natural Gas Chemistry, 2012, 21, 138-147.	1.8	17
136	Effective production of Î³-valerolactone from biomass-derived methyl levulinate over CuO -CaCO3 catalyst. Chinese Journal of Catalysis, 2019, 40, 192-203.	14.0	17
137	Efficient enzymatic hydrolysis of the bagasse pulp prepared with active oxygen and MgO-based solid alkali. Carbohydrate Polymers, 2013, 94, 807-813.	10.2	16
138	Chemical Structure Change of Magnesium Oxide in the Wet Oxidation Delignification Process of Biomass with Solid Alkali. ChemCatChem, 2017, 9, 2544-2549.	3.7	16
139	Comparison of the Physical and Chemical Properties, Performance, and Emissions of Ethyl Levulinateâ€“Biodieselâ€“Diesel and <i>n</i>-Butanolâ€“Biodieselâ€“Diesel Blends. Energy & Fuels, 2017, 31, 5055-5062.	5.1	16
140	Assembly of Zr-based coordination polymer over USY zeolite as a highly efficient and robust acid catalyst for one-pot transformation of fructose into 2,5-bis(isopropoxymethyl)furan. Journal of Catalysis, 2020, 389, 87-98.	6.2	16
141	Lignin degradation in cooking with active oxygen and solid Alkali process: A mechanism study. Journal of Cleaner Production, 2021, 278, 123984.	9.3	16
142	Zeolite-encapsulated Cu nanoparticles with enhanced performance for ethanol dehydrogenation. Journal of Catalysis, 2022, 413, 565-574.	6.2	16
143	An effective pathway for 5-brominemethylfurfural synthesis from biomass sugars in deep eutectic solvent. Journal of Chemical Technology and Biotechnology, 2017, 92, 2929-2933.	3.2	15
144	Scale-up cultivation enhanced arachidonic acid accumulation by red microalgae Porphyridium purpureum. Bioprocess and Biosystems Engineering, 2017, 40, 1763-1773.	3.4	15

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145	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2695-2695.	6.8	15
146	Boosting the lattice oxygen activity of Fe-catalyst for producing 2,5-diformylfuran from 5-hydroxymethylfurfural. Fuel, 2022, 308, 122069.	6.4	15
147	Boosting the Acid Sites and Lattice Oxygen Activity of the Feâ€“Cu Catalyst for One-Pot Producing 2,5-Diformylfuran from Fructose. ACS Sustainable Chemistry and Engineering, 2022, 10, 421-430.	6.7	15
148	Tandem thionation of biomass derived levulinic acid with Lawesson's reagent. Green Chemistry, 2016, 18, 2971-2975.	9.0	14
149	Facile fabrication of super-hydrophilic cellulose hydrogel-coated mesh using deep eutectic solvent for efficient gravity-driven oil/water separation. Cellulose, 2021, 28, 949-960.	4.9	14
150	Green Process for 5â€(Chloromethyl)furfural Production from Biomass in Threeâ€Constituent Deep Eutectic Solvent. ChemSusChem, 2021, 14, 847-851.	6.8	14
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