

Technology development for the production of biobased carbohydrates” the US Department of Energy’s

Green Chemistry

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Enzyme-catalysis breathes new life into polyester condensation polymerizations. Trends in Biotechnology, 2010, 28, 435-443.	4.9	215
3	Acid-Catalyzed Dehydration of Fructose and Inulin with Glycerol or Glycerol Carbonate as Renewably Sourced Co-Solvent. ChemSusChem, 2010, 3, 1304-1309.	3.6	66
6	Selective and Flexible Transformation of Biomass-Derived Platform Chemicals by a Multifunctional Catalytic System. Angewandte Chemie - International Edition, 2010, 49, 5510-5514.	7.2	530
7	Solubility of bio-sourced feedstocks in "green" solvents. Green Chemistry, 2010, 12, 1648.	4.6	54
8	β -Valerolactone Ring-Opening and Decarboxylation over $\text{SiO}_2/\text{Al}_2\text{O}_3$ in the Presence of Water. Langmuir, 2010, 26, 16291-16298.	1.6	169
9	Polycarbonates Derived from Green Acids: Ring-Opening Polymerization of Seven-Membered Cyclic Carbonates. Macromolecules, 2010, 43, 8007-8017.	2.2	59
10	Connecting Biomass and Petroleum Processing with a Chemical Bridge. Science, 2010, 329, 522-523.	6.0	288
11	A seawater-based biorefining strategy for fermentative production and chemical transformations of succinic acid. Energy and Environmental Science, 2011, 4, 1471.	15.6	64
12	Adapting a Wacker-type catalyst system to the palladium-catalyzed oxidative carbonylation of aliphatic polyols. Green Chemistry, 2011, 13, 292.	4.6	39
13	BBSRC support for bioenergy and industrial biotechnology: Recommendations to encourage UK science and technology for the energy and chemicals industries. Industrial Biotechnology, 2011, 7, 41-52.	0.5	2
14	Sorbitol dehydration in high temperature liquid water. Green Chemistry, 2011, 13, 873.	4.6	129
15	Oxidation of 5-hydroxymethylfurfural to maleic anhydride with molecular oxygen. Green Chemistry, 2011, 13, 554.	4.6	150
16	Selective Homogeneous Hydrogenation of Biogenic Carboxylic Acids with $[\text{Ru}(\text{TriPhos})\text{H}]^+$: A Mechanistic Study. Journal of the American Chemical Society, 2011, 133, 14349-14358.	6.6	233
17	Biomass Fractionation for the Biorefinery: Heteronuclear Multiple Quantum Coherence "Nuclear Magnetic Resonance Investigation of Lignin Isolated from Solvent Fractionation of Switchgrass. Journal of Agricultural and Food Chemistry, 2011, 59, 9232-9242.	2.4	77
18	Prediction of the Thermodynamic Properties of Key Products and Intermediates from Biomass. Journal of Physical Chemistry C, 2011, 115, 15686-15702.	1.5	57
19	Discrete, Solvent-Free Alkaline-Earth Metal Cations: Metal-Fluorine Interactions and ROP Catalytic Activity. Journal of the American Chemical Society, 2011, 133, 9069-9087.	6.6	202
20	Cu-Based Catalysts Show Low Temperature Activity for Glycerol Conversion to Lactic Acid. ACS Catalysis, 2011, 1, 548-551.	5.5	147
21	Understanding and Controlling Reactivity of Unsaturated Oxygenates and Polyols on Metal Catalysts. ACS Catalysis, 2011, 1, 1284-1297.	5.5	101

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22	Zinc and magnesium complexes supported by bulky multidentate amino-ether phenolate ligands: potent pre-catalysts for the immortal ring-opening polymerisation of cyclic esters. Dalton Transactions, 2011, 40, 523-534.	1.6	111
23	Environmental Comparison of Biobased Chemicals from Glutamic Acid with Their Petrochemical Equivalents. Environmental Science & Technology, 2011, 45, 8521-8528.	4.6	51
24	Levulinic esters from the acid-catalysed reactions of sugars and alcohols as part of a bio-refinery. Green Chemistry, 2011, 13, 1676.	4.6	200
25	Clean energy new deal for a sustainable world: from non-CO2 generating energy sources to greener electrochemical storage devices. Energy and Environmental Science, 2011, 4, 2003.	15.6	626
26	Tuning selectivity of Pt/CaCO ₃ in glycerol hydrogenolysis – A Design of Experiments approach. Catalysis Communications, 2011, 13, 1-5.	1.6	62
27	Catalytic routes for the conversion of biomass into liquid hydrocarbon transportation fuels. Energy and Environmental Science, 2011, 4, 83-99.	15.6	747
28	Heterogeneous catalysis of the glycerol hydrogenolysis. Catalysis Science and Technology, 2011, 1, 179.	2.1	363
29	Selective hydrogenolysis of biomass-derived xylitol to ethylene glycol and propylene glycol on supported Ru catalysts. Green Chemistry, 2011, 13, 135-142.	4.6	211
30	Selective catalytic conversion of biobased carbohydrates to formic acid using molecular oxygen. Green Chemistry, 2011, 13, 2759.	4.6	176
31	The irruption of polymers from renewable resources on the scene of macromolecular science and technology. Green Chemistry, 2011, 13, 1061.	4.6	610
32	Investigation of glycerol polymerization in the clinker grinding process. Green Chemistry, 2011, 13, 143-148.	4.6	11
33	Algae as a source of renewable chemicals: opportunities and challenges. Green Chemistry, 2011, 13, 1399.	4.6	201
34	Chemicals from Hemicelluloses: A Review. ACS Symposium Series, 2011, , 219-259.	0.5	20
35	Phase distribution of the products of radiation and postradiation distillation of cellulose. High Energy Chemistry, 2011, 45, 386-389.	0.2	4
36	Radiation and postradiation distillation of biopolymers: Lignin and chitin. High Energy Chemistry, 2011, 45, 470-474.	0.2	4
37	Green chemistry in the bulk chemicals industry. Kinetics and Catalysis, 2011, 52, 337-347.	0.3	8
38	Aqueous-phase hydrodeoxygenation of carboxylic acids to alcohols or alkanes over supported Ru catalysts. Journal of Molecular Catalysis A, 2011, 351, 217-227.	4.8	130
39	Phase distribution of products of radiation and post-radiation distillation of biopolymers: Cellulose, lignin and chitin. Radiation Physics and Chemistry, 2011, 80, 1186-1194.	1.4	14

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40	Prospects for electron-beam technology in plant biomass processing. Herald of the Russian Academy of Sciences, 2011, 81, 623-628.	0.2	11
41	Catalysis and characterization of carbon-supported ruthenium for cellulose hydrolysis. Applied Catalysis A: General, 2011, 407, 188-194.	2.2	107
42	Glycerol utilisation for the production of chemicals: Conversion to succinic acid, a combined experimental and computational study. Biochemical Engineering Journal, 2011, 58-59, 1-11.	1.8	107
43	Catalytic dehydration of xylose to furfural: vanadyl pyrophosphate as source of active soluble species. Carbohydrate Research, 2011, 346, 2785-2791.	1.1	60
44	Transformations of biomass-derived platform molecules: from high added-value chemicals to fuels via aqueous-phase processing. Chemical Society Reviews, 2011, 40, 5266.	18.7	739
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46	Rheology of concentrated biomass. Korea Australia Rheology Journal, 2011, 23, 237-245.	0.7	25
47	Catalysis in biomass processing. Catalysis in Industry, 2011, 3, 218-249.	0.3	52
48	Production of liquid hydrocarbon fuels by catalytic conversion of biomass-derived levulinic acid. Green Chemistry, 2011, 13, 1755.	4.6	289
49	Catalytic conversion of lignocellulosic biomass to fine chemicals and fuels. Chemical Society Reviews, 2011, 40, 5588.	18.7	1,174
50	Selective Aerobic Oxidation of 5-Hydroxymethylfurfural in Water Over Solid Ruthenium Hydroxide Catalysts with Magnesium-Based Supports. Catalysis Letters, 2011, 141, 1752-1760.	1.4	89
51	“Green chemistry” a new paradigm for the basic organic chemical industry. Theoretical and Experimental Chemistry, 2011, 46, 371-383.	0.2	4
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53	Effect of Support in Heterogeneous Ruthenium Catalysts Used for the Selective Aerobic Oxidation of HMF in Water. Topics in Catalysis, 2011, 54, 1318-1324.	1.3	113
54	Engineering microbial factories for synthesis of value-added products. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 873-890.	1.4	210
55	Microbial degradation of furanic compounds: biochemistry, genetics, and impact. Applied Microbiology and Biotechnology, 2011, 92, 1095-1105.	1.7	150
56	Routes to Potential Bioproducts from Lignocellulosic Biomass Lignin and Hemicelluloses. Bioenergy Research, 2011, 4, 246-257.	2.2	129
57	Magnesium and nickel(II) furan-2,5-dicarboxylate. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m327-m330.	0.4	5

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58	Novel suberin-based biopolyesters: From synthesis to properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2281-2291.	2.5	48
59	Synthesis and characterization of poly(2,5-furan dicarboxylate)s based on a variety of diols. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3759-3768.	2.5	305
60	Towards the Sustainable Production of Higher-Molecular-Weight Polyglycerol. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1284-1293.	1.1	53
61	Cellulose-Based Sustainable Polymers: State of the Art and Future Trends. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1299-1311.	2.0	153
62	Use of hybrid organic-siliceous catalysts for the selective conversion of glycerol. <i>European Journal of Lipid Science and Technology</i> , 2011, 113, 118-134.	1.0	15
63	Efficient Conversion of Furfuryl Alcohol into Alkyl Levulinates Catalyzed by an Organic-Inorganic Hybrid Solid Acid Catalyst. <i>ChemSusChem</i> , 2011, 4, 112-118.	3.6	168
64	Direct Catalytic Synthesis of 5-Methylfurfural from Biomass-Derived Carbohydrates. <i>ChemSusChem</i> , 2011, 4, 349-352.	3.6	90
65	Synthesis of 5-(Hydroxymethyl)furfural in Ionic Liquids: Paving the Way to Renewable Chemicals. <i>ChemSusChem</i> , 2011, 4, 451-458.	3.6	237
66	Catalytic Conversion of Dihydroxyacetone to Lactic Acid Using Metal Salts in Water. <i>ChemSusChem</i> , 2011, 4, 768-777.	3.6	111
67	Synthesis of Biobased Succinonitrile from Glutamic Acid and Glutamine. <i>ChemSusChem</i> , 2011, 4, 785-791.	3.6	45
68	Isohexide Derivatives from Renewable Resources as Chiral Building Blocks. <i>ChemSusChem</i> , 2011, 4, 599-603.	3.6	76
69	Renewable Chemicals: Dehydroxylation of Glycerol and Polyols. <i>ChemSusChem</i> , 2011, 4, 1017-1034.	3.6	282
70	Production of Biofuels from Cellulose and Corn Stover Using Alkylphenol Solvents. <i>ChemSusChem</i> , 2011, 4, 1078-1081.	3.6	130
71	Ruthenium-Catalyzed Conversion of Levulinic Acid to Pyrrolidines by Reductive Amination. <i>ChemSusChem</i> , 2011, 4, 1578-1581.	3.6	102
72	Conversion of Biomass-Derived Levulinate and Formate Esters into γ -Valerolactone over Supported Gold Catalysts. <i>ChemSusChem</i> , 2011, 4, 1838-1843.	3.6	96
76	Hydrogen-Independent Reductive Transformation of Carbohydrate Biomass into γ -Valerolactone and Pyrrolidone Derivatives with Supported Gold Catalysts. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7815-7819.	7.2	316
77	Beyond Petrochemicals: The Renewable Chemicals Industry. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10502-10509.	7.2	464
78	Depolymerization of Cellulose Assisted by a Nonthermal Atmospheric Plasma. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8964-8967.	7.2	85

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79	The conversion of lignocellulosics to levulinic acid. <i>Biofuels, Bioproducts and Biorefining</i> , 2011, 5, 198-214.	1.9	538
80	Metal-Free Dehydration of Glucose to 5-(Hydroxymethyl)furfural in Ionic Liquids with Boric Acid as a Promoter. <i>Chemistry - A European Journal</i> , 2011, 17, 1456-1464.	1.7	177
81	On the Diels-Alder Approach to Solely Biomass-Derived Polyethylene Terephthalate (PET): Conversion of 2,5-Dimethylfuran and Acrolein into p-Xylene. <i>Chemistry - A European Journal</i> , 2011, 17, 12452-12457.	1.7	146
82	Cellulose and Heterogeneous Catalysis - A Combination for Future. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 411-419.	0.4	17
83	Utilisation of biomass for sustainable fuels and chemicals: Molecules, methods and metrics. <i>Catalysis Today</i> , 2011, 167, 3-13.	2.2	157
84	Direct routes from biomass to end-products. <i>Catalysis Today</i> , 2011, 167, 31-36.	2.2	42
85	Techno-economic analysis of dimethylfuran (DMF) and hydroxymethylfurfural (HMF) production from pure fructose in catalytic processes. <i>Chemical Engineering Journal</i> , 2011, 169, 329-338.	6.6	219
86	Selective production of hemicellulose-derived carbohydrates from wheat straw using dilute HCl or FeCl ₃ solutions under mild conditions. X-ray and thermo-gravimetric analysis of the solid residues. <i>Bioresource Technology</i> , 2011, 102, 5917-5923.	4.8	59
87	Pillared H-MCM-36 mesoporous and H-MCM-22 microporous materials for conversion of levoglucosan: Influence of varying acidity. <i>Applied Catalysis A: General</i> , 2011, 397, 13-21.	2.2	23
88	Cellulose reactivity and glycosidic bond cleavage in aqueous phase by catalytic and non catalytic transformations. <i>Applied Catalysis A: General</i> , 2011, 402, 1-10.	2.2	82
89	Environmental assessment of propionic acid produced in an agricultural biomass-based biorefinery system. <i>Journal of Cleaner Production</i> , 2011, 19, 1257-1265.	4.6	56
90	Catalytic conversion of glycerin with NaOH under mild temperatures. , 2011, , .		1
91	Breeding crop plants with deep roots: their role in sustainable carbon, nutrient and water sequestration. <i>Annals of Botany</i> , 2011, 108, 407-418.	1.4	313
92	Continuous-Flow Processes in Heterogeneously Catalyzed Transformations of Biomass Derivatives into Fuels and Chemicals. <i>Challenges</i> , 2012, 3, 114-132.	0.9	40
93	6 Conversion of cellulose and hemicellulose into platform molecules: chemical routes. , 2012, , 123-140.		5
94	10 Catalytic conversion of biosourced raw materials: homogeneous catalysis. , 2012, , 231-262.		7
95	Application Properties of Stimuli-Responsive Polyglycerol Hydrogels. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 103-110.	1.2	7
96	Pd-Catalyzed Telomerization of 1,3-Dienes with Multifunctional Renewable Substrates: Versatile Routes for the Valorization of Biomass-Derived Platform Molecules. <i>Topics in Organometallic Chemistry</i> , 2012, , 45-101.	0.7	13

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97	Environmental sustainability aspects and criteria in forest biorefineries. Sustainability Accounting, Management and Policy Journal, 2012, 3, 161-185.	2.4	11
98	Hydrolysis of chitosan to yield levulinic acid and 5-hydroxymethylfurfural in water under microwave irradiation. Green Chemistry, 2012, 14, 1480.	4.6	161
99	Replacing fossil based PET with biobased PEF; process analysis, energy and GHG balance. Energy and Environmental Science, 2012, 5, 6407.	15.6	478
100	Heterogeneous Catalysts for Converting Renewable Feedstocks to Fuels and Chemicals. , 2012, , 263-304.		5
101	Transesterification of Glycerol with Dimethyl Carbonate to Glycerol Carbonate over Na-based Zeolites. Chinese Journal of Catalysis, 2012, 33, 1772-1777.	6.9	70
102	A roadmap for conversion of lignocellulosic biomass to chemicals and fuels. Current Opinion in Chemical Engineering, 2012, 1, 218-224.	3.8	273
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104	Selective conversion of furfuryl alcohol to 1,2-pentanediol over a Ru/MnOx catalyst in aqueous phase. Green Chemistry, 2012, 14, 3402.	4.6	117
105	Molecular mapping of the acid catalysed dehydration of fructose. Chemical Communications, 2012, 48, 5850.	2.2	189
106	Mechanistic Insights into the Kinetic and Regiochemical Control of the Thiol-Promoted Catalytic Synthesis of Diphenolic Acid. ACS Catalysis, 2012, 2, 2700-2704.	5.5	38
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108	Product developments in the bio-based chemicals arena. Biofuels, Bioproducts and Biorefining, 2012, 6, 606-624.	1.9	145
109	Aerobic Oxidation of 5-(Hydroxymethyl)furfural in Ionic Liquids with Solid Ruthenium Hydroxide Catalysts. Catalysis Letters, 2012, 142, 1089-1097.	1.4	50
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118	Electron-beam synthesis of fuel in the gas phase. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1440-1444.	1.4	12
119	Valorization of Biomass: Deriving More Value from Waste. <i>Science</i> , 2012, 337, 695-699.	6.0	1,791
120	Conversion of biomass to selected chemical products. <i>Chemical Society Reviews</i> , 2012, 41, 1538-1558.	18.7	2,169
121	Furandicarboxylic Acid (FDCA), A Versatile Building Block for a Very Interesting Class of Polyesters. <i>ACS Symposium Series</i> , 2012, , 1-13.	0.5	206
122	Biobased Chemicals from Conception toward Industrial Reality: Lessons Learned and To Be Learned. <i>ACS Catalysis</i> , 2012, 2, 1487-1499.	5.5	163
123	One-pot reduction of 5-hydroxymethylfurfural via hydrogen transfer from supercritical methanol. <i>Green Chemistry</i> , 2012, 14, 2457.	4.6	164
124	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. <i>Green Chemistry</i> , 2012, 14, 3087.	4.6	74
125	Prediction of the Thermodynamic Properties of Key Products and Intermediates from Biomass. II. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20738-20754.	1.5	13
126	Continuous Dehydration and Hydrogenolysis of Glycerol over Non-Chromium Copper Catalyst: Laboratory-Scale Process Studies. <i>Organic Process Research and Development</i> , 2012, 16, 1043-1052.	1.3	40
127	Solid acid co-catalyst for the hydrogenolysis of glycerol to 1,3-propanediol over Ir-ReOx/SiO2. <i>Applied Catalysis A: General</i> , 2012, 433-434, 128-134.	2.2	164
128	Highly dispersed supported ruthenium oxide as an aerobic catalyst for acetic acid synthesis. <i>Applied Catalysis A: General</i> , 2012, 433-434, 243-250.	2.2	14
129	Availability of protein-derived amino acids as feedstock for the production of bio-based chemicals. <i>Biomass and Bioenergy</i> , 2012, 44, 168-181.	2.9	140
130	Biomass to chemicals: Design of an extractive-reaction process for the production of 5-hydroxymethylfurfural. <i>Computers and Chemical Engineering</i> , 2012, 42, 130-137.	2.0	36
131	One-pot preparation of methyl levulinate from catalytic alcoholysis of cellulose in near-critical methanol. <i>Carbohydrate Research</i> , 2012, 358, 37-39.	1.1	46
132	Sorbitol transformation in aqueous medium: Influence of metal/acid balance on reaction selectivity. <i>Catalysis Today</i> , 2012, 189, 117-122.	2.2	17

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133	Direct downstream catalysis: From succinate to its diethyl ester without intermediate acidification. <i>Chemical Engineering Journal</i> , 2012, 200-202, 637-644.	6.6	18
134	High yield production of levulinic acid by catalytic partial oxidation of cellulose in aqueous media. <i>Energy and Environmental Science</i> , 2012, 5, 9773.	15.6	82
135	Selective hydrogenation of higher saturated carboxylic acids to alcohols using a ReOxâ€‘Pd/SiO2 catalyst. <i>Catalysis Science and Technology</i> , 2012, 2, 2221.	2.1	94
136	Process synthesis for addressing the sustainable energy systems and environmental issues. <i>AIChE Journal</i> , 2012, 58, 3370-3389.	1.8	49
137	Development of Heterogeneous Catalysts for the Conversion of Levulinic Acid to Î³-Valerolactone. <i>ChemSusChem</i> , 2012, 5, 1657-1667.	3.6	456
138	A Simple Oneâ€‘Pot Dehydration Process to Convert N-acetyl-D-glucosamine into a Nitrogen-Containing Compound, 5-acetamido-5-acetylfuran. <i>ChemSusChem</i> , 2012, 5, 1767-1772.	3.6	104
139	Biodiesel biorefinery: opportunities and challenges for microbial production of fuels and chemicals from glycerol waste. <i>Biotechnology for Biofuels</i> , 2012, 5, 48.	6.2	186
140	Acid-catalyzed conversion of furfuryl alcohol to ethyl levulinate in liquid ethanol. <i>Energy and Environmental Science</i> , 2012, 5, 8990.	15.6	146
141	Advances in the Use of BioHâ€‘ Polyols in Polyurethanes. <i>ACS Symposium Series</i> , 2012, , 165-181.	0.5	6
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143	Production of levulinic acid and gamma-valerolactone (GVL) from cellulose using GVL as a solvent in biphasic systems. <i>Energy and Environmental Science</i> , 2012, 5, 8199.	15.6	316
144	Tunable copper-catalyzed chemoselective hydrogenolysis of biomass-derived Î³-valerolactone into 1,4-pentanediol or 2-methyltetrahydrofuran. <i>Green Chemistry</i> , 2012, 14, 935.	4.6	199
145	Mono-, Di-, and Oligosaccharides as Precursors for Polymer Synthesis. , 2012, , 59-82.		10
146	Exploring the ruthenium catalysed synthesis of Î³-valerolactone in alcohols and utilisation of mild solvent-free reaction conditions. <i>Green Chemistry</i> , 2012, 14, 1260.	4.6	243
147	Biomass-Derived Platform Chemicals: Thermodynamic Studies on the Extraction of 5-Hydroxymethylfurfural from Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 2985-2991.	1.0	26
148	Highly efficient hydrogenation of biomass-derived levulinic acid to Î³-valerolactone catalyzed by iridium pincer complexes. <i>Green Chemistry</i> , 2012, 14, 2388.	4.6	161
149	Experimental and theoretical studies of the acid-catalyzed conversion of furfuryl alcohol to levulinic acid in aqueous solution. <i>Energy and Environmental Science</i> , 2012, 5, 6981.	15.6	136
150	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. <i>Green Chemistry</i> , 2012, 14, 614.	4.6	151

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151	Selective oxidation of glycerol with oxygen in base-free solution over MWCNTs supported PtSb alloy nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 212-220.	10.8	139
152	Production of ethyl levulinate by direct conversion of wheat straw in ethanol media. <i>Bioresource Technology</i> , 2012, 121, 93-99.	4.8	133
153	An integrated process for the production of platform chemicals and diesel miscible fuels by acid-catalyzed hydrolysis and downstream upgrading of the acid hydrolysis residues with thermal and catalytic pyrolysis. <i>Bioresource Technology</i> , 2012, 126, 92-100.	4.8	25
154	Protective group-free synthesis of 3,4-dihydroxytetrahydrofurans from carbohydrates: formal total synthesis of sphydrofuran. <i>Carbohydrate Research</i> , 2012, 362, 30-37.	1.1	10
155	Thiol-promoted catalytic synthesis of diphenolic acid with sulfonated hyperbranched poly(arylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	64
156	Carbohydrate Hydrogenolysis. <i>ACS Symposium Series</i> , 2012, , 183-196.	0.5	6
157	Triacetic acid lactone as a potential biorenewable platform chemical. <i>Green Chemistry</i> , 2012, 14, 1850.	4.6	117
158	Reprogramming Microbial Metabolic Pathways. <i>Sub-Cellular Biochemistry</i> , 2012, , .	1.0	11
159	Efficient microwave-assisted production of furfural from C5 sugars in aqueous media catalysed by Brønsted acidic ionic liquids. <i>Catalysis Science and Technology</i> , 2012, 2, 1828.	2.1	87
160	Catalysis for Alternative Energy Generation. , 2012, , .		29
161	DESIGN, SYNTHESIS, AND APPLICATION OF NOVEL FLAME RETARDANTS DERIVED FROM BIOMASS. <i>BioResources</i> , 2012, 7, .	0.5	10
162	Hydrolysis of Lignocellulosic Biomass: Current Status of Processes and Technologies and Future Perspectives. , 0, , .		53
163	Conversion of Carbohydrates Under Microwave Heating. , 0, , .		8
164	Preparation of polymer nanoparticles from renewable biobased furfuryl alcohol and maleic anhydride by stabilizer-free dispersion polymerization. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3606-3617.	2.5	13
165	Cu-ZrO ₂ nanocomposite catalyst for selective hydrogenation of levulinic acid and its ester to β -valerolactone. <i>Green Chemistry</i> , 2012, 14, 1064.	4.6	313
166	Ethylene glycol: properties, synthesis, and applications. <i>Chemical Society Reviews</i> , 2012, 41, 4218.	18.7	819
167	Renewable linear alpha olefins by selective ethenolysis of decarboxylated unsaturated fatty acids. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 911-918.	1.0	39
168	Succinic acid production from <i>n</i> -alkanes. <i>Engineering in Life Sciences</i> , 2012, 12, 560-566.	2.0	15

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1122	Salt influence on MIBK/water liquid-liquid equilibrium: Measuring and modeling with ePC-SAFT and COSMO-RS. <i>Fluid Phase Equilibria</i> , 2016, 416, 83-93.	1.4	41
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1124	Insight into catalyst deactivation mechanism and suppression techniques in thermocatalytic deoxygenation of bio-oil over zeolites. <i>Reviews in Chemical Engineering</i> , 2016, 32, .	2.3	31
1125	A catalytic biofuel production strategy involving separate conversion of hemicellulose and cellulose using 2-sec-butylphenol (SBP) and lignin-derived (LD) alkylphenol solvents. <i>Bioresource Technology</i> , 2016, 204, 1-8.	4.8	20
1126	Solid acid catalyzed synthesis of furans from carbohydrates. <i>Catalysis Reviews - Science and Engineering</i> , 2016, 58, 36-112.	5.7	111
1127	Chemical Conversion of Biomass to Green Chemicals. , 2016, , 19-49.		10
1128	Chemicals, electricity and fuels from biorefineries processing Brazil's sugarcane bagasse: Production recipes and minimum selling prices. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1443-1458.	8.2	50
1129	New unsaturated copolyesters based on 2,5-furandicarboxylic acid and their crosslinked derivatives. <i>Polymer Chemistry</i> , 2016, 7, 1049-1058.	1.9	60
1130	The Effect of Ag in the Cu/ZrO ₂ Performance for the Ethanol Conversion. <i>Topics in Catalysis</i> , 2016, 59, 357-365.	1.3	19
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1132	Completely recyclable biopolymers with linear and cyclic topologies via ring-opening polymerization of γ -butyrolactone. <i>Nature Chemistry</i> , 2016, 8, 42-49.	6.6	461
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1134	Zeolite Catalysis for Biomass Conversion. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 347-372.	0.4	2
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1136	Catalytic Oxidation Pathways for the Production of Carboxylic Acids from Biomass. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 171-202.	0.4	1
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1138	Process design and economics of an aluminium chloride catalysed organosolv process. <i>Biomass Conversion and Biorefinery</i> , 2016, 6, 335-345.	2.9	12

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1142	Silver supported on hierarchically porous SiO ₂ and Co ₃ O ₄ monoliths: Efficient heterogeneous catalyst for oxidation of cyclohexene. <i>Journal of Molecular Catalysis A</i> , 2016, 411, 61-71.	4.8	19
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1146	Aqueous-phase reforming of crude glycerol: effect of impurities on hydrogen production. <i>Catalysis Science and Technology</i> , 2016, 6, 134-143.	2.1	54
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1158	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to γ -valerolactone over ZrO ₂ catalyst supported on SBA-15 silica. <i>Catalysis Today</i> , 2017, 281, 418-428.	2.2	129
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1214	Isosorbide telechelic bio-based oligomers. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2178-2189.	2.5	4
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1270	Controlled defunctionalisation of biobased organic acids. <i>Chemical Communications</i> , 2017, 53, 5682-5693.	2.2	14
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1273	Products Components: Alcohols. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2017, 166, 339-372.	0.6	4
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1281	One-pot Preparation of Dimethyl Isosorbide from D-Sorbitol via Dimethyl Carbonate Chemistry. <i>ChemSusChem</i> , 2017, 10, 53-57.	3.6	28
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1290	Preparation of <i>A. succinogenes</i> immobilized microfiber membrane for repeated production of succinic acid. <i>Enzyme and Microbial Technology</i> , 2017, 98, 34-42.	1.6	19
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1293	Production of <i>p</i> -Methylstyrene and <i>p</i> -Divinylbenzene from Furanic Compounds. <i>ChemSusChem</i> , 2017, 10, 91-98.	3.6	29
1294	Biocatalytic Reduction of HMF to 2,5-Bis(hydroxymethyl)furan by HMF-Tolerant Whole Cells. <i>ChemSusChem</i> , 2017, 10, 372-378.	3.6	92
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1303	Preparation of new β -D-xyloside- and β -D-xylobioside-based ionic liquids through chemical and/or enzymatic reactions. <i>Carbohydrate Research</i> , 2017, 451, 72-80.	1.1	6
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1827	Exploring Molecular Mechanisms of Cosolvent Enhanced Biomass Deconstruction: An Overview of Recent Progress. <i>ACS Symposium Series</i> , 2019, , 103-117.	0.5	1
1828	Metabolic engineering with ATP-citrate lyase and nitrogen source supplementation improves itaconic acid production in <i>Aspergillus niger</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 233.	6.2	23
1829	Direct Catalytic Route to Biomass-Derived 2,5-Furandicarboxylic Acid and Its Use as Monomer in a Multicomponent Polymerization. <i>ACS Omega</i> , 2019, 4, 16972-16979.	1.6	24
1830	Dynamics of Lignin: Molecular Dynamics and Neutron Scattering. <i>ACS Symposium Series</i> , 2019, , 49-67.	0.5	1
1831	Fixation of CO ₂ , electron donor and redox microenvironment regulate succinic acid production in <i>Citrobacter amalonaticus</i> . <i>Science of the Total Environment</i> , 2019, 695, 133838.	3.9	27
1832	Measurement of Physicochemical Properties of Lignin. <i>ACS Symposium Series</i> , 2019, , 33-47.	0.5	3
1833	Local initiatives and global regimes – Multi-scalar transition dynamics in the chemical industry. <i>Journal of Cleaner Production</i> , 2019, 216, 172-183.	4.6	37

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1835	Selective Oxidation of 5-Hydroxymethylfurfural to 5-Hydroxymethyl-2-furancarboxylic Acid Using <i>Gluconobacter oxydans</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4406-4413.	3.2	54
1836	Multiple iron reduction by methoxylated phenolic lignin structures and the generation of reactive oxygen species by lignocellulose surfaces. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 340-346.	3.6	24
1837	Protein-Rich Biomass Waste as a Resource for Future Biorefineries: State of the Art, Challenges, and Opportunities. <i>ChemSusChem</i> , 2019, 12, 1272-1303.	3.6	60
1838	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2019, 141, 3116-3120.	6.6	123
1839	A facile method to prepare high molecular weight bio-renewable poly(γ -butyrolactone) using a strong base/urea binary synergistic catalytic system. <i>Polymer Chemistry</i> , 2019, 10, 1231-1237.	1.9	62
1840	Beyond ethanol, sugar, and electricity: a critical review of product diversification in Brazilian sugarcane mills. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 809-821.	1.9	50
1841	Algal biorefinery: A sustainable approach to valorize algal-based biomass towards multiple product recovery. <i>Bioresource Technology</i> , 2019, 278, 346-359.	4.8	198
1842	Bio-Based Chemicals: Selective Aerobic Oxidation of Tetrahydrofuran-2,5-dimethanol to Tetrahydrofuran-2,5-dicarboxylic Acid Using Hydrotalcite-Supported Gold Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4647-4656.	3.2	19
1843	Effect of functional groups in acid constituent of deep eutectic solvent for extraction of reactive lignin. <i>Bioresource Technology</i> , 2019, 281, 359-366.	4.8	163
1844	The hydrogenation of levulinic acid to γ -valerolactone over Cu-ZrO ₂ catalysts prepared by a pH-gradient methodology. <i>Journal of Energy Chemistry</i> , 2019, 36, 15-24.	7.1	30
1845	Using electro-coagulation treatment to remove phenolic compounds and furan derivatives in hydrolysates resulting from pilot-scale supercritical water hydrolysis of Mongolian oak. <i>Renewable Energy</i> , 2019, 138, 971-979.	4.3	21
1846	Regioselective Hydrogenation of Itaconic Acid to γ -isovalerolactone by Transition-Metal Nanoparticle Catalysts. <i>ChemSusChem</i> , 2019, 12, 973-977.	3.6	4
1847	Towards an energy efficient chemistry. Switching from fossil to bio-based products in a life cycle perspective. <i>Energy</i> , 2019, 170, 720-729.	4.5	33
1848	Applications of lignin-derived catalysts for green synthesis. <i>Green Energy and Environment</i> , 2019, 4, 210-244.	4.7	91
1849	The route towards sustainable production of ethylene glycol from a renewable resource, biodiesel waste: a review. <i>Catalysis Science and Technology</i> , 2019, 9, 567-577.	2.1	44
1850	Synthesis of levulinic acid based poly(amine-co-ester)s. <i>Green Chemistry</i> , 2019, 21, 123-128.	4.6	18
1851	Conversion of levulinic acid to γ -valerolactone over ultra-thin TiO ₂ nanosheets decorated with ultrasmall Ru nanoparticle catalysts under mild conditions. <i>Green Chemistry</i> , 2019, 21, 770-774.	4.6	55

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1853	Economic analysis of a horizontal diabatic separation system. <i>Chemical Engineering Research and Design</i> , 2019, 147, 709-720.	2.7	1
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1855	The aza-Michael reaction: towards semi-crystalline polymers from renewable itaconic acid and diamines. <i>Polymer Chemistry</i> , 2019, 10, 4049-4058.	1.9	21
1856	An experimental study on thermal catalytic decomposition of inulin to 5-hydroxymethylfurfural and levulinic acid and the effect of C6 on furfural during the decomposition process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 543, 012006.	0.3	1
1857	Study of Static Steam Explosion of <i>Citrus sinensis</i> Juice Processing Waste for the Isolation of Sugars, Pectic Hydrocolloids, Flavonoids, and Peel Oil. <i>Food and Bioprocess Technology</i> , 2019, 12, 1293-1303.	2.6	10
1858	Growth-coupled bioconversion of levulinic acid to butanone. <i>Metabolic Engineering</i> , 2019, 55, 92-101.	3.6	16
1859	Clean Catalytic Oxidation for Derivatization of Key Biobased Platform Chemicals: Ethanol, Glycerol, and Hydroxymethyl Furfural. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16077-16095.	1.8	27
1860	Selective conversion of 5-hydroxymethylfurfural to diketone derivatives over Beta zeolite-supported Pd catalysts in water. <i>Journal of Catalysis</i> , 2019, 375, 224-233.	3.1	31
1861	Levulinic Acid as a Versatile Building Block for Plasticizer Design. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	3.2	17
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1864	Selective aerobic oxidation of glycerol over zirconium phosphate-supported vanadium catalyst. <i>Molecular Catalysis</i> , 2019, 474, 110404.	1.0	14
1865	Electrochemical Conversion of Biomass-Based Oxygenated Compounds. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2019, 10, 85-104.	3.3	55
1866	Recent development of production technology of diesel- and jet-fuel-range hydrocarbons from inedible biomass. <i>Fuel Processing Technology</i> , 2019, 193, 404-422.	3.7	83
1867	Bio-based building blocks from 5-hydroxymethylfurfural <i>via</i> 1-hydroxyhexane-2,5-dione as intermediate. <i>Chemical Science</i> , 2019, 10, 6024-6034.	3.7	59
1868	Stabilities, Regeneration Pathways, and Electrocatalytic Properties of Nitroxyl Radicals for the Electrochemical Oxidation of 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11138-11149.	3.2	57
1869	Selective Conversion of Furfural to Cyclopentanone and Cyclopentanol by Magnetic Cu-Fe ₃ O ₄ NPs Catalyst. <i>ChemistrySelect</i> , 2019, 4, 5845-5852.	0.7	15

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1871	Additive-free photo-assisted selective partial oxidation at ambient conditions of 5-hydroxymethylfurfural by manganese (IV) oxide nanorods. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117803.	10.8	74
1872	Purolite-Catalyzed Etherification of 2,5-Bis(hydroxymethyl)furan: A Systematic Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10221-10226.	3.2	27
1873	Metal-functionalized carbon nanotubes for biomass conversion: base-free highly efficient and recyclable catalysts for aerobic oxidation of 5-hydroxymethylfurfural. <i>New Journal of Chemistry</i> , 2019, 43, 10601-10609.	1.4	13
1874	Bioproduction of fumaric acid: an insight into microbial strain improvement strategies. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 817-834.	5.1	50
1875	Efficient Electrochemical Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Bis(hydroxymethyl)furan on Ag-Displaced Nanotextured Cu Catalysts. <i>ChemElectroChem</i> , 2019, 6, 4739-4749.	1.7	26
1876	Cu/Cu ₂ O-MC (MC = Mesoporous Carbon) for Highly Efficient Hydrogenation of Furfural to Furfuryl Alcohol under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11485-11492.	3.2	35
1877	A tunable precious metal-free system for selective oxidative esterification of biobased 5-(hydroxymethyl)furfural. <i>Green Chemistry</i> , 2019, 21, 3464-3468.	4.6	28
1878	Effect of ionic liquids 1-octyl-3-methyl imidazolium bromide or 1-octyl-3-methyl imidazolium chloride on thermophysical properties and taste behavior of sucrose in aqueous media at different temperatures: Volumetric, compressibility and viscometric properties. <i>Food Chemistry</i> , 2019, 295, 662-670.	4.2	9
1879	A review on progresses and performances in distillery stillage management. <i>Journal of Cleaner Production</i> , 2019, 232, 295-307.	4.6	29
1880	Zeolite-supported metal catalysts for selective hydrodeoxygenation of biomass-derived platform molecules. <i>Green Chemistry</i> , 2019, 21, 3744-3768.	4.6	200
1881	Biomass-Derived Production of Itaconic Acid as a Building Block in Specialty Polymers. <i>Polymers</i> , 2019, 11, 1035.	2.0	88
1882	Techno-economic analysis of chemically catalysed lignocellulose biorefineries at a typical sugar mill: Sorbitol or glucaric acid and electricity co-production. <i>Bioresource Technology</i> , 2019, 289, 121635.	4.8	43
1883	Improved mechanical properties of flexible bio-based polymeric materials derived from epoxy mono/di-abietic acid and soyabean oil. <i>Industrial Crops and Products</i> , 2019, 138, 111437.	2.5	12
1884	Continuous flow hydrogenation of methyl and ethyl levulinate: an alternative route to γ -valerolactone production. <i>Royal Society Open Science</i> , 2019, 6, 182233.	1.1	11
1885	When Will 5-Hydroxymethylfurfural, the "Sleeping Giant" of Sustainable Chemistry, Awaken?. <i>ChemSusChem</i> , 2019, 12, 2976-2982.	3.6	154
1886	Directional liquefaction of lignocellulosic biomass for value added monosaccharides and aromatic compounds. <i>Industrial Crops and Products</i> , 2019, 135, 251-259.	2.5	19
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1891	Mechanistic Approaches toward Rational Design of a Heterogeneous Catalyst for Ring-Opening and Deoxygenation of Biomass-Derived Cyclic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10165-10181.	3.2	30
1892	Tailoring Sn-SBA-15 properties for catalytic isomerization of glucose. <i>Applied Catalysis A: General</i> , 2019, 581, 37-42.	2.2	22
1893	Reductive Amination/Cyclization of Methyl Levulinate with Aspartic Acid: Towards Renewable Polyesters with a Pendant Lactam Unit. <i>ChemSusChem</i> , 2019, 12, 3370-3376.	3.6	12
1894	Alternative Recovery and Valorization of Metals from Exhausted Catalytic Converters in a New Smart Polymetallic Catalyst. <i>ChemistrySelect</i> , 2019, 4, 4624-4632.	0.7	0
1895	Synthesis of hydroxymethylfurfural and furfural from hardwood and softwood pulp using ferric sulphate as catalyst. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 531-542.	2.3	17
1896	CuZnCoOx multifunctional catalyst for in situ hydrogenation of 5-hydroxymethylfurfural with ethanol as hydrogen carrier. <i>Journal of Catalysis</i> , 2019, 373, 314-321.	3.1	50
1897	The outlook of the production of advanced fuels and chemicals from integrated oil palm biomass biorefinery. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 109, 386-411.	8.2	128
1898	Continuous-Flow Oxidation of HMF to FDCA by Resin-Supported Platinum Catalysts in Neat Water. <i>ChemSusChem</i> , 2019, 12, 2558-2563.	3.6	56
1899	Trade-Off between Acidic Sites and Crystallinity of the WO ₃ -TiO ₂ Catalyst toward Dehydration of Glucose to 5-Hydroxymethylfurfural. <i>Energy & Fuels</i> , 2019, 33, 5293-5303.	2.5	40
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1901	Structure and Mechanism of Titania-Supported Platinum-Molybdenum Catalyst for Hydrodeoxygenation of 2-Furancarboxylic Acid to Valeric Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9601-9612.	3.2	20
1902	Synthesis of functionalized tetrahydrofuran derivatives from 2,5-dimethylfuran through cascade reactions. <i>Green Chemistry</i> , 2019, 21, 2601-2609.	4.6	4
1903	Noble and Base-Metal Nanoparticles Supported on Mesoporous Metal Oxides: Efficient Catalysts for the Selective Hydrogenation of Levulinic Acid to γ -Valerolactone. <i>Catalysis Letters</i> , 2019, 149, 2807-2822.	1.4	23
1904	Salt effect on liquid-liquid equilibria of tetrahydrofuran/water/5-hydroxymethylfurfural systems. <i>Fluid Phase Equilibria</i> , 2019, 493, 137-143.	1.4	15
1905	Pyrolysis of aquatic carbohydrates using CO ₂ as reactive gas medium: A case study of chitin. <i>Energy</i> , 2019, 177, 136-143.	4.5	17

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1907	Influence of the Incorporation of Basic or Amphoteric Oxides on the Performance of Cu-Based Catalysts Supported on Sepiolite in Furfural Hydrogenation. <i>Catalysts</i> , 2019, 9, 315.	1.6	18
1908	Multiscale Modeling of (Hemi)cellulose Hydrolysis and Cascade Hydrotreatment of 5-Hydroxymethylfurfural, Furfural, and Levulinic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16018-16032.	1.8	72
1909	Influence of surface Lewis acid sites for the selective hydrogenation of levulinic acid to $\hat{\text{I}}^3$ -valerolactone over Ni-Cu-Al mixed oxide catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 127, 601-616.	0.8	11
1910	Direct electrochemical extraction increases microbial succinic acid production from spent sulphite liquor. <i>Green Chemistry</i> , 2019, 21, 2401-2411.	4.6	19
1911	Preparation of furans from catalytic conversion of corn stover in H ₂ O-THF co-solvent system – The effects of acids combined with alkali metal cations. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 105-111.	2.7	9
1912	Integrative process for sugarcane bagasse biorefinery to co-produce xylooligosaccharides and gluconic acid. <i>Bioresource Technology</i> , 2019, 282, 81-87.	4.8	94
1913	Synthesis of 1,3-Butadiene and Its 2-Substituted Monomers for Synthetic Rubbers. <i>Catalysts</i> , 2019, 9, 97.	1.6	37
1914	One-step fabrication of Ni-embedded hierarchically-porous carbon microspheres for levulinic acid hydrogenation. <i>Chemical Engineering Journal</i> , 2019, 369, 386-393.	6.6	53
1915	Difuranic Diols for Renewable Polymers with Pendent Furan Rings. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7035-7046.	3.2	20
1916	Applications of Dimethyl Carbonate for the Chemical Upgrading of Biosourced Platform Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6471-6479.	3.2	73
1917	Highly selective hydrogenation of biomass-derived 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over an acid-base bifunctional hafnium-based coordination polymer catalyst. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1033-1041.	2.5	35
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1919	Comparative analysis of key technologies for cellulosic ethanol production from Brazilian sugarcane bagasse at a commercial scale. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 994-1014.	1.9	85
1920	Examining Acid Formation During the Selective Dehydration of Fructose to 5-Hydroxymethylfurfural in Dimethyl Sulfoxide and Water. <i>ChemSusChem</i> , 2019, 12, 2211-2219.	3.6	35
1921	Biosynthesis of 2,5-furan dicarboxylic acid by <i>Aspergillus flavus</i> APLS-1: Process optimization and intermediate product analysis. <i>Bioresource Technology</i> , 2019, 284, 155-160.	4.8	30
1922	Electrocatalytic Upgrading of Phenolic Compounds Observed after Lignin Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8375-8386.	3.2	69
1923	Biofuel Synthesis from Sorbitol by Aqueous Phase Hydrodeoxygenation over Bifunctional Catalysts: In-depth Study of the Ru-Pt/SiO ₂ -Al ₂ O ₃ Catalytic System. <i>Catalysts</i> , 2019, 9, 146.	1.6	4

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1925	Selective synthesis of 2-furoic acid and 5-hydroxymethyl-2-furancarboxylic acid from bio-based furans by recombinant <i>Escherichia coli</i> cells. <i>Molecular Catalysis</i> , 2019, 469, 68-74.	1.0	37
1926	Post-synthesis Treatment of TS-1 with TPAOH: Effect of Hydrophobicity on the Liquid-Phase Oxidation of Furfural to Maleic Acid. <i>Topics in Catalysis</i> , 2019, 62, 560-569.	1.3	12
1927	Hydrothermal Dehydration of Monosaccharides Promoted by Seawater: Fundamentals on the Catalytic Role of Inorganic Salts. <i>Frontiers in Chemistry</i> , 2019, 7, 132.	1.8	11
1928	Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, III: Extended Study on Effect of Catalyst Type on Molecular Weight Increase. <i>Polymers</i> , 2019, 11, 438.	2.0	22
1929	Production of d-Lactate from Avocado Seed Hydrolysates by Metabolically Engineered <i>Escherichia coli</i> JU15. <i>Fermentation</i> , 2019, 5, 26.	1.4	9
1930	Approaches to Computational Strain Design in the Multiomics Era. <i>Frontiers in Microbiology</i> , 2019, 10, 597.	1.5	17
1931	A Robust Strategy for Sustainable Organic Chemicals Utilizing Bioprivileged Molecules. <i>ChemSusChem</i> , 2019, 12, 2970-2975.	3.6	17
1932	Activation of Heteroaromatic C-H Bonds in Furan and 2,5-Dimethylfuran. <i>Inorganic Chemistry</i> , 2019, 58, 6008-6015.	1.9	7
1933	A Group Contribution Equation of State for Biorefineries. GCA-EOS Extension to Bioether Fuels and Their Mixtures with <i>n</i> -Alkanes. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2170-2185.	1.0	3
1934	Harnessing the reactivity of poly(methylhydrosiloxane) for the reduction and cyclization of biomass to high-value products. <i>Green Chemistry</i> , 2019, 21, 2662-2669.	4.6	14
1935	Efficient catalytic conversion of corn stalk and xylose into furfural over sulfonated graphene in γ -valerolactone. <i>RSC Advances</i> , 2019, 9, 10569-10577.	1.7	26
1936	Dialkyl Carbonates in the Green Synthesis of Heterocycles. <i>Frontiers in Chemistry</i> , 2019, 7, 300.	1.8	19
1938	Brillouin and NMR spectroscopic studies of aqueous dilutions of malicine: Determining the dilution range for transition from a water-in-DES system to a DES-in-water one. <i>Journal of Molecular Liquids</i> , 2019, 284, 175-181.	2.3	32
1939	Facile synthesis of γ -valerolactone by transfer hydrogenation of methyl levulinate and levulinic acid over Ni/ZrO ₂ . <i>Catalysis Communications</i> , 2019, 125, 52-55.	1.6	25
1940	Electrochemical cross-coupling of biogenic di-acids for sustainable fuel production. <i>Green Chemistry</i> , 2019, 21, 2334-2344.	4.6	32
1941	Bioreactors for succinic acid production processes. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 571-586.	5.1	52
1942	Sustainable bio-based furan epoxy resin with flame retardancy. <i>Polymer Chemistry</i> , 2019, 10, 2370-2375.	1.9	54

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1944	Efficient Production of Ethyl Levulinate from Furfuryl Alcohol Catalyzed by Modified Zirconium Phosphate. <i>ChemistrySelect</i> , 2019, 4, 3940-3947.	0.7	10
1945	In-situ synthesis of single-atom Ir by utilizing metal-organic frameworks: An acid-resistant catalyst for hydrogenation of levulinic acid to β -valerolactone. <i>Journal of Catalysis</i> , 2019, 373, 161-172.	3.1	109
1946	Influence of Anion and Cation Structure of Ionic Liquids on Carboxylic Acids Extraction. <i>Frontiers in Chemistry</i> , 2019, 7, 117.	1.8	13
1947	5-Hydroxymethylfurfural production from watermelon peel by microwave hydrothermal liquefaction. <i>Energy</i> , 2019, 174, 198-205.	4.5	31
1948	Exploiting the Synergetic Behavior of PtPd Bimetallic Catalysts in the Selective Hydrogenation of Glucose and Furfural. <i>Catalysts</i> , 2019, 9, 132.	1.6	17
1949	Switching the regioselectivity of two nitrilases toward succinonitrile by mutating the active center pocket key residues through a semi-rational engineering. <i>Chemical Communications</i> , 2019, 55, 2948-2951.	2.2	7
1950	Synthesis of Acrylonitrile from Renewable Lactic Acid. <i>ChemSusChem</i> , 2019, 12, 1653-1663.	3.6	15
1951	Optimization of Maleinized Linseed Oil Loading as a Biobased Compatibilizer in Poly(Butylene) Terephthalate. <i>Journal of Applied Polymer Science</i> , 2019, 143, 47527.	1.8	20
1952	The studies on chemoselective promiscuous activity of hydrolases on acylals transformations. <i>Bioorganic Chemistry</i> , 2019, 93, 102825.	2.0	7
1953	Sustainable processes for the catalytic synthesis of safer chemical substitutes of N-methyl-2-pyrrolidone. <i>Molecular Catalysis</i> , 2019, 466, 60-69.	1.0	27
1954	Chemicals from Biomass: Selective Synthesis of N-Substituted Furfuryl Amines by the One-Pot Direct Reductive Amination of Furanic Aldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6243-6250.	3.2	56
1955	One-Step Conversion of Fructose to Furfuryl Alcohol in a Continuous Fixed-Bed Reactor: The Important Role of Supports. <i>ChemCatChem</i> , 2019, 11, 2118-2125.	1.8	5
1956	Polymers derived from hemicellulosic parts of lignocellulosic biomass. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 317-334.	3.9	57
1957	On the R&D Landscape Evolution in Catalytic Upgrading of Biomass. <i>Studies in Surface Science and Catalysis</i> , 2019, , 149-171.	1.5	2
1958	A fully bio-based polyimine vitrimer derived from fructose. <i>Green Chemistry</i> , 2019, 21, 1596-1601.	4.6	197
1959	Heteropolyacids supported on mesoporous AISBA-15 as efficient catalysts for esterification of levulinic acid. <i>Journal of Porous Materials</i> , 2019, 26, 1335-1343.	1.3	21
1960	Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. <i>ChemCatChem</i> , 2019, 11, 2022-2042.	1.8	92

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1962	Innovation opportunities in the Brazilian sugar-energy sector. <i>Journal of Cleaner Production</i> , 2019, 218, 871-879.	4.6	22
1963	Catalytic production of levulinic acid from matured coconut water. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 702, 012010.	0.3	0
1965	Thermal Properties of Bio-based Polymers. <i>Advances in Polymer Science</i> , 2019, , .	0.4	9
1966	An integrated strategy for the production of hydrocarbon fuels from lignocellulosic biomass. , 2019, , .		0
1967	Organic phase screening for in-stream reactive extraction of bio-based 3-hydroxypropionic acid: biocompatibility and extraction performances. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 95, 1046.	1.6	9
1968	Biocatalytic Oxidation in Continuous Flow for the Generation of Carbohydrate Dialdehydes. <i>ACS Catalysis</i> , 2019, 9, 11658-11662.	5.5	36
1969	Mesoporous carbon and microporous zeolite supported Ru catalysts for selective levulinic acid hydrogenation into β -valerolactone. <i>Catalysis for Sustainable Energy</i> , 2019, 6, 38-50.	0.7	7
1970	Structural Studies of Deuterium-Labeled Switchgrass Biomass. <i>ACS Symposium Series</i> , 2019, , 17-32.	0.5	2
1971	Catalytic conversion of biomass-derived polyols into para-xylene over SiO ₂ -modified zeolites. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 513-520.	0.6	8
1972	A solvent-less green synthetic route toward a sustainable bio-based elastomer: design, synthesis, and characterization of poly(dibutyl itaconate- <i>co</i> -butadiene). <i>Polymer Chemistry</i> , 2019, 10, 6131-6144.	1.9	19
1973	Selectively creating oxygen vacancies on PrCe/SiO ₂ catalysts for the transformation of a furfural- α -acetone adduct into a functionalized 1,3-diene. <i>Catalysis Science and Technology</i> , 2019, 9, 6875-6883.	2.1	3
1974	Sulfonated graphitic carbon nitride as a highly selective and efficient heterogeneous catalyst for the conversion of biomass-derived saccharides to 5-hydroxymethylfurfural in green solvents. <i>Green Chemistry</i> , 2019, 21, 6012-6026.	4.6	107
1975	Selective hydrogenolysis of 2-furancarboxylic acid to 5-hydroxyvaleric acid derivatives over supported platinum catalysts. <i>Green Chemistry</i> , 2019, 21, 6133-6145.	4.6	26
1976	A facile method to synthesize bio-based and biodegradable copolymers from furandicarboxylic acid and isosorbide with high molecular weights and excellent thermal and mechanical properties. <i>Polymer Chemistry</i> , 2019, 10, 5594-5601.	1.9	29
1977	Aqueous Carbonylation of Furfural-Derived 5-Bromofuroic Acid to 2,5-Furandicarboxylic Acid with Supported Palladium Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22951-22957.	1.8	10
1978	Halloysite-Catalyzed Esterification of Bio-Mass Derived Acids. <i>ACS Omega</i> , 2019, 4, 19437-19441.	1.6	24
1979	Synthesis and Evaluation of Acid-Base Bifunctional MOFs Catalyst Supported on PVDF Membrane for Glucose Dehydration to 5-HMF. <i>ChemistrySelect</i> , 2019, 4, 13182-13190.	0.7	9

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1981	Direct Valorization of Lignocellulosic Biomass into Value-Added Chemicals by Polyoxometalate Catalyzed Oxidation under Mild Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22996-23004.	1.8	26
1982	Catalytic Conversion of Biomass-Derived Carbohydrates into Levulinic Acid Assisted by a Cationic Surface Active Agent. <i>ChemistrySelect</i> , 2019, 4, 13021-13024.	0.7	1
1983	A Non-Noble Monometallic Catalyst Derived from Cu-MOFs for Highly Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. <i>ChemistrySelect</i> , 2019, 4, 13517-13524.	0.7	20
1984	Organic Lewis pairs for selective copolymerization of epoxides with anhydrides to access sequence-controlled block copolymers. <i>Green Chemistry</i> , 2019, 21, 6123-6132.	4.6	67
1985	A rigid spirocyclic diol from fructose-based 5-hydroxymethylfurfural: synthesis, life-cycle assessment, and polymerization for renewable polyesters and poly(urethane-urea)s. <i>Green Chemistry</i> , 2019, 21, 6667-6684.	4.6	50
1986	Enzymatic synthesis of biobased aliphatic-aromatic oligoesters using 5,5-bis(hydroxymethyl)furoin as a building block. <i>RSC Advances</i> , 2019, 9, 29044-29050.	1.7	11
1987	Efficient production of 5-hydroxymethylfurfural from fructose over CuAPO-5 molecular sieves synthesized using an ionothermal method. <i>RSC Advances</i> , 2019, 9, 32848-32853.	1.7	3
1988	Modification of Poly(Ethylene 2,5-Furandicarboxylate) with Poly(Ethylene glycol) for Biodegradable Copolyesters with Good Mechanical Properties and Spinnability. <i>Polymers</i> , 2019, 11, 2105.	2.0	18
1989	Dehydration of sorbitol to isosorbide over hydrophobic polymer-based solid acid. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 182-192.	10.8	36
1990	Bio-compounds Production from Agri-food Wastes Under a Biorefinery Approach: Exploring Environmental and Social Sustainability. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2019, , 25-53.	0.7	5
1991	Furfural production from microwave catalytic torrefaction of Douglas fir sawdust. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 138, 188-195.	2.6	21
1992	Supercritical Carbon Dioxide Extraction of Value-Added Products and Thermochemical Synthesis of Platform Chemicals from Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2821-2829.	3.2	23
1993	Aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Co/Mn-lignin coordination complexes-derived catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 965-973.	10.8	110
1994	Direct synthesis of metal-organic frameworks catalysts with tunable acid-base strength for glucose dehydration to 5-hydroxymethylfurfural. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 93-103.	2.7	34
1995	An investigation of the thermal and (bio)degradability of PBS copolyesters based on isosorbide. <i>Polymer Degradation and Stability</i> , 2019, 160, 229-241.	2.7	41
1996	Computational Framework for the Identification of Bioprivileged Molecules. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2414-2428.	3.2	20
1997	Recent advances in catalytic conversion of biomass to 5-hydroxymethylfurfural and 2,5-dimethylfuran. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 103, 227-247.	8.2	183

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1999	Niobium-doped TiO ₂ solid acid catalysts: Strengthened interfacial polarization, amplified microwave heating and enhanced energy efficiency of hydroxymethylfurfural production. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 741-749.	10.8	34
2000	Magnetic cross-linked enzyme aggregates (MCLEAs) applied to biomass conversion. <i>Journal of Solid State Chemistry</i> , 2019, 270, 58-70.	1.4	16
2001	Preparation of Amphiphilic Poly(ethylene glycol)- <i>b</i> -poly(β -butyrolactone) Diblock Copolymer via Ring Opening Polymerization Catalyzed by a Cyclic Trimeric Phosphazene Base or Alkali Alkoxide. <i>Biomacromolecules</i> , 2019, 20, 141-148.	2.6	40
2002	Catalytic in-situ hydrogenation of 5-hydroxymethylfurfural to 2,5-dimethylfuran over Cu-based catalysts with methanol as a hydrogen donor. <i>Applied Catalysis A: General</i> , 2019, 570, 245-250.	2.2	50
2003	Ruthenium Catalyzed Reductive Transformation of Itaconic Acid and Ammonia Into 3- and 4-Methylpyrrolidone. <i>ChemCatChem</i> , 2019, 11, 439-442.	1.8	16
2004	Efficient preparation of 5-hydroxymethylfurfural from cellulose in a biphasic system over hafnium phosphates. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 170-177.	10.8	77
2005	Toward Infinitely Recyclable Plastics Derived from Renewable Cyclic Esters. <i>CheM</i> , 2019, 5, 284-312.	5.8	239
2006	Solubility behavior of β -valerolactone in n-tetradecane or diesel mixtures at different temperatures. <i>Fluid Phase Equilibria</i> , 2019, 484, 239-244.	1.4	9
2007	Modification of Poly(ethylene 2,5-furandicarboxylate) with Biobased 1,5-Pentanediol: Significantly Toughened Copolyesters Retaining High Tensile Strength and O ₂ Barrier Property. <i>Biomacromolecules</i> , 2019, 20, 353-364.	2.6	92
2008	Sustaining the Transition from a Petrobased to a Biobased Chemical Industry with Flow Chemistry. <i>Topics in Current Chemistry</i> , 2019, 377, 1.	3.0	104
2009	Selective Synthesis of Furfuryl Alcohol from Biomass-Derived Furfural Using Immobilized Yeast Cells. <i>Catalysts</i> , 2019, 9, 70.	1.6	24
2010	Selective conversion of biomass-derived levulinic acid to ethyl levulinate catalyzed by metal organic framework (MOF)-supported polyoxometalates. <i>Applied Catalysis A: General</i> , 2019, 572, 168-175.	2.2	53
2011	Integrated in-situ product removal process concept for itaconic acid by reactive extraction, pH-shift back extraction and purification by pH-shift crystallization. <i>Separation and Purification Technology</i> , 2019, 215, 463-472.	3.9	30
2012	Effect of MnO ₂ Crystal Structure on Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. <i>Journal of the American Chemical Society</i> , 2019, 141, 890-900.	6.6	299
2013	Two-stage autohydrolysis and mechanical treatment to maximize sugar recovery from sweet sorghum bagasse. <i>Bioresource Technology</i> , 2019, 276, 140-145.	4.8	10
2014	Thermally Regulated Recyclable Carbene Catalysts for Upgrading of Biomass Furaldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1980-1988.	3.2	15
2015	Transesterification of Isosorbide with Dimethyl Carbonate Catalyzed by Task-Specific Ionic Liquids. <i>ChemSusChem</i> , 2019, 12, 1169-1178.	3.6	41

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2018	Valorization of egg shell as a detoxifying and buffering agent for efficient polymalic acid production by <i>Aureobasidium pullulans</i> NRRL Y-2311-1 from barley straw hydrolysate. <i>Bioresource Technology</i> , 2019, 278, 130-137.	4.8	19
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2020	Recent Advances in the Development of 5-Hydroxymethylfurfural Oxidation with Base (Nonprecious) Metal-Containing Catalysts. <i>ChemSusChem</i> , 2019, 12, 145-163.	3.6	141
2021	Bio-based polyester itaconates as binder resins for UV-curing offset printing inks. <i>Journal of Coatings Technology Research</i> , 2019, 16, 689-697.	1.2	16
2022	Glycerol Partial Oxidation over Pt/Al ₂ O ₃ Catalysts under Basic and Base-Free Conditions—Effect of the Particle Size. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2019, 96, 63-74.	0.8	7
2023	Dehydration of fructose into 5-hydroxymethylfurfural in a biphasic system using EDTA as a temperature-responsive catalyst. <i>Applied Catalysis A: General</i> , 2019, 569, 93-100.	2.2	23
2024	Thermoelectrics: From history, a window to the future. <i>Materials Science and Engineering Reports</i> , 2019, 138, 100501.	14.8	341
2025	Hydroxyapatite supported gold nanocatalyst for base-free oxidative esterification of 5-hydroxymethyl-2-furfural to 2,5-furan dimethylcarboxylate with air as oxidant. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 338-345.	2.9	24
2026	Bio-Electro-Refinery. , 2019, , 1059-1085.		1
2027	Towards Improved Biorefinery Technologies: 5-Methylfurfural as a Versatile C ₆ Platform for Biofuels Development. <i>ChemSusChem</i> , 2019, 12, 185-189.	3.6	42
2028	Insights into HMF catalysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 1-34.	2.9	90
2029	Solvent-free organocatalytic preparation of cyclic organic carbonates under scalable continuous flow conditions. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 17-26.	1.9	26
2030	Simultaneously high-rate furfural hydrogenation and oxidation upgrading on nanostructured transition metal phosphides through electrocatalytic conversion at ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 899-908.	10.8	115
2031	Reasons for processing of rice coproducts: Reality and expectations. <i>Biomass and Bioenergy</i> , 2019, 120, 240-256.	2.9	56
2032	Valorization of Lignin—Carbohydrate Complexes from Hydrolysates of Norway Spruce: Efficient Separation, Structural Characterization, and Antioxidant Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1447-1456.	3.2	25
2033	Challenges in lipid production from lignocellulosic biomass using <i>Rhodospiridium</i> sp.; A look at the role of lignocellulosic inhibitors. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 740-759.	1.9	32

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2035	A Comparative Study of Nickel, Cobalt, and Iron Oxyhydroxide Anodes for the Electrochemical Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. <i>ACS Catalysis</i> , 2019, 9, 660-670.	5.5	254
2036	Electrochemical Membrane Reactor Modeling for Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2091-2099.	3.2	9
2037	Nanophase separation in aqueous dilutions of a ternary DES as revealed by Brillouin and NMR spectroscopy. <i>Journal of Molecular Liquids</i> , 2019, 276, 196-203.	2.3	33
2038	Screening of Solvents, Hydrogen Source, and Investigation of Reaction Mechanism for the Hydrocyclisation of Levulinic Acid to Î³-Valerolactone Using Ni/SiO ₂ –Al ₂ O ₃ Catalyst. <i>Catalysis Letters</i> , 2019, 149, 215-227.	1.4	25
2039	Heterogeneous hydroconversion of levulinic acid over silica-supported Ni catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 126, 795-810.	0.8	6
2040	Biorefinery Polyutilization Systems: Production of Green Transportation Fuels From Biomass. , 2019, , 373-407.		10
2041	Regulatory non-coding sRNAs in bacterial metabolic pathway engineering. <i>Metabolic Engineering</i> , 2019, 52, 190-214.	3.6	53
2042	Life cycle assessment of poplar production: Environmental impact of different soil enrichment methods. <i>Journal of Cleaner Production</i> , 2019, 206, 785-796.	4.6	29
2043	Development of High Performance Heterogeneous Catalysts for Selective Cleavage of C–O and C–C Bonds of Biomass-Derived Oxygenates. <i>Chemical Record</i> , 2019, 19, 1179-1198.	2.9	22
2044	Ketonization kinetics of stearic acid. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 126, 601-610.	0.8	6
2045	Synthesis and characterization of high bio-based content unsaturated polyester resin for wood coating from itaconic acid: Effect of various reactive diluents as an alternative to styrene. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 756-765.	1.3	22
2046	Furfural production from lignocellulosic biomass by ultrasound-assisted acid hydrolysis. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 332-339.	3.8	41
2047	Developments in the Atomistic Modelling of Catalytic Processes for the Production of Platform Chemicals from Biomass. <i>ChemCatChem</i> , 2019, 11, 357-367.	1.8	3
2049	C6 Diacids from homocitric acid lactone using relay heterogeneous catalysis in water. <i>Catalysis Today</i> , 2019, 319, 191-196.	2.2	1
2050	Catalytic dehydration of sorbitol and fructose by acid-modified zirconium phosphate. <i>Catalysis Today</i> , 2019, 319, 66-75.	2.2	32
2051	Optimization of Furfural Synthesis from Xylose Using Niobic Acid and Niobium Phosphate as Catalysts. <i>Waste and Biomass Valorization</i> , 2019, 10, 2673-2680.	1.8	10
2052	Au/Al ₂ O ₃ – Efficient catalyst for 5-hydroxymethylfurfural oxidation to 2,5-furandicarboxylic acid. <i>Catalysis Today</i> , 2019, 333, 169-175.	2.2	41

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2054	Application of NMR Spectroscopy and Conventional Analytical Methods for the Assessment of Wastewater from Food Industry. <i>Waste and Biomass Valorization</i> , 2020, 11, 1349-1357.	1.8	11
2055	A selective oxidative valorization of biomass-derived furfural and ethanol with the supported gold catalysts. <i>Catalysis Today</i> , 2020, 355, 238-245.	2.2	12
2056	Zirconium-Containing Organic-Inorganic Nanohybrid as a Highly Efficient Catalyst for the Selective Synthesis of Biomass-Derived 2,5-Dihydroxymethylfuran in Isopropanol. <i>Waste and Biomass Valorization</i> , 2020, 11, 3485-3499.	1.8	15
2057	Engineering the future: Perspectives in the 2,5-furandicarboxylic acid synthesis. <i>Catalysis Today</i> , 2020, 354, 211-217.	2.2	27
2058	Hydrogenolysis of glycerol to 1,2-propanediol over Cu-based catalysts: A short review. <i>Catalysis Today</i> , 2020, 355, 84-95.	2.2	78
2059	In situ preparation of bimetallic ReOx-Pd/TiO2 catalysts for selective aqueous-phase hydrogenation of succinic acid to 1,4-butanediol. <i>Catalysis Today</i> , 2020, 355, 75-83.	2.2	15
2060	Recent progress in homogeneous Lewis acid catalysts for the transformation of hemicellulose and cellulose into valuable chemicals, fuels, and nanocellulose. <i>Reviews in Chemical Engineering</i> , 2020, 36, 215-235.	2.3	24
2061	Xylitol: A review on the progress and challenges of its production by chemical route. <i>Catalysis Today</i> , 2020, 344, 2-14.	2.2	156
2062	Production of HMF in high yield using a low cost and recyclable carbonaceous catalyst. <i>Chemical Engineering Journal</i> , 2020, 382, 122766.	6.6	40
2063	Towards improving the sustainability of bioplastics: Process modelling and life cycle assessment of two separation routes for 2,5-furandicarboxylic acid. <i>Separation and Purification Technology</i> , 2020, 233, 116056.	3.9	32
2064	Thermodynamic analysis, experimental and kinetic modeling of levulinic acid esterification with ethanol at supercritical conditions. <i>Fuel</i> , 2020, 260, 116376.	3.4	11
2065	Status of filamentous fungi in integrated biorefineries. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109472.	8.2	65
2066	Carboxylic acid reductases in metabolic engineering. <i>Journal of Biotechnology</i> , 2020, 307, 1-14.	1.9	32
2067	NiSe@NiOx core-shell nanowires as a non-precious electrocatalyst for upgrading 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118235.	10.8	130
2068	Towards Controlling the Reactivity of Enzymes in Mechanochemistry: Inert Surfaces Protect Î²-Glucosidase Activity During Ball Milling. <i>ChemSusChem</i> , 2020, 13, 106-110.	3.6	29
2069	Reduction of Propanoic Acid over Pd-Promoted Supported WO _x Catalysts. <i>ChemCatChem</i> , 2020, 12, 314-325.	1.8	3
2070	Process design and techno-economic analysis of gas and aqueous phase maleic anhydride production from biomass-derived furfural. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 1021-1033.	2.9	23

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2073	Pyrolysis and combustion characteristics and kinetics of wood sawdust and wood sawdust hydrochar. Environmental Progress and Sustainable Energy, 2020, 39, e13315.	1.3	7
2074	Efficient synthesis of 5-hydroxymethyl-2-furancarboxylic acid by Escherichia coli overexpressing aldehyde dehydrogenases. Journal of Biotechnology, 2020, 307, 125-130.	1.9	38
2075	Synthesis of n-Butyl Levulinate Using Mesoporous Zeolite H-BEA Catalysts with Different Catalytic Characteristics. Catalysis Letters, 2020, 150, 1049-1060.	1.4	30
2076	Biotechnological production of sweeteners. , 2020, , 261-292.		14
2077	Isosorbide: Recent advances in catalytic production. Molecular Catalysis, 2020, 482, 110648.	1.0	21
2078	Conversion of levulinic acid to ethyl levulinate using tin modified silicotungstic acid supported on Ta ₂ O ₅ . Catalysis Communications, 2020, 134, 105864.	1.6	25
2079	Sustainable production of glucaric acid from corn stover via glucose oxidation: An assessment of homogeneous and heterogeneous catalytic oxidation production routes. Chemical Engineering Research and Design, 2020, 153, 337-349.	2.7	23
2080	The effect of fermentation broth composition on removal of carboxylic acids by reactive extraction with Cyanex 923. Separation and Purification Technology, 2020, 236, 116289.	3.9	15
2081	Tracing the production area of citrus fruits using aroma-active compounds and their quality evaluation models. Journal of the Science of Food and Agriculture, 2020, 100, 517-526.	1.7	10
2082	Microstructure and high-temperature properties of Fe-Ti-Cr-Mo-B-C-Y ₂ O ₃ laser cladding coating. Journal of Rare Earths, 2020, 38, 683-688.	2.5	16
2083	Selective Synthesis of Monoesters of Itaconic Acid with Broad Substrate Scope: Biobased Alternatives to Acrylic Acid?. ACS Sustainable Chemistry and Engineering, 2020, 8, 1583-1590.	3.2	23
2084	Addressing environmental sustainability of biochemicals. Nature Sustainability, 2020, 3, 167-174.	11.5	112
2085	Pentanoic acid from γ -valerolactone and formic acid using bifunctional catalysis. Green Chemistry, 2020, 22, 1171-1181.	4.6	33
2086	Solvent-free hydrogenation of levulinic acid to γ -valerolactone using a Shvo catalyst precursor: optimization, thermodynamic insights, and life cycle assessment. Green Chemistry, 2020, 22, 2443-2458.	4.6	22
2087	Bioderivatization as a concept for renewable production of chemicals that are toxic or poorly soluble in the liquid phase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1404-1413.	3.3	19
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2090	Selective production of 5-hydroxymethylfurfural from fructose in the presence of an acid-functionalized SBA-15 catalyst modified with a sulfoxide polymer. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 257-268.	1.7	20
2091	Unraveling the effect of ZrO ₂ modifiers on the nature of active sites on AuRu/ZrO ₂ catalysts for furfural hydrogenation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1469-1480.	2.5	10
2092	Ru supported on N-doped reduced graphene oxide aerogels with different N-type for alcohol selective oxidation. <i>Molecular Catalysis</i> , 2020, 484, 110737.	1.0	8
2093	Recovery of succinic acid by integrated multi-phase electrochemical pH-shift extraction and crystallization. <i>Separation and Purification Technology</i> , 2020, 240, 116489.	3.9	40
2094	Magneli-Phase Titanium Suboxide Nanocrystals as Highly Active Catalysts for Selective Acetalization of Furfural. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2539-2547.	4.0	23
2095	Improved succinate production from galactose-rich feedstocks by engineered <i>Escherichia coli</i> under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1082-1091.	1.7	7
2096	Towards Preparative Chemoenzymatic Oxidative Decarboxylation of Glutamic Acid. <i>ChemCatChem</i> , 2020, 12, 2180-2183.	1.8	11
2097	Photoinduced Upgrading of Lactic Acid-Based Solvents to Block Copolymer Surfactants. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1276-1284.	3.2	22
2099	Fuels and fuel additives from furfural derivatives via etherification and formation of methylfurans. <i>Fuel Processing Technology</i> , 2020, 200, 106308.	3.7	50
2100	Metal-Free Alternating Copolymerization of Nonstrained β -Selenobutyrolactone with Epoxides for Selenium-Rich Polyesters. <i>Macromolecules</i> , 2020, 53, 203-211.	2.2	23
2101	A Biorefinery approach towards development of renewable platform chemicals from sustainable biomass. , 2020, , 135-147.		4
2102	Process design, techno-economic, and life-cycle assessments of selected sugarcane-based biorefineries: a case study in the South African context. , 2020, , 567-597.		2
2103	Fractionation of a dilute acetic acid aqueous mixture in a continuous countercurrent packed column using supercritical CO ₂ : Experiments and simulation of external extract reflux. <i>Journal of Supercritical Fluids</i> , 2020, 157, 104680.	1.6	3
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