Technology development for the production of biobased
carbohydratesâ€"the US Department of Energyâ€s â€œ

Green Chemistry

12, 539

DOI: 10.1039/b922014c

Citation Report

#	Article	IF	Citations
2	Enzyme-catalysis breathes new life into polyester condensation polymerizations. Trends in Biotechnology, 2010, 28, 435-443.	9.3	215
3	Acidâ€Catalyzed Dehydration of Fructose and Inulin with Glycerol or Glycerol Carbonate as Renewably Sourced Coâ€Solvent. ChemSusChem, 2010, 3, 1304-1309.	6.8	66
6	Selective and Flexible Transformation of Biomassâ€Derived Platform Chemicals by a Multifunctional Catalytic System. Angewandte Chemie - International Edition, 2010, 49, 5510-5514.	13.8	530
7	Solubility of bio-sourced feedstocks in â€˜greenâ€™ solvents. Green Chemistry, 2010, 12, 1648.	9.0	54
8	Î³-Valerolactone Ring-Opening and Decarboxylation over SiO₂/Al₂O₃ in the Presence of Water. Langmuir, 2010, 26, 16291-16298.	3.5	169
9	Polycarbonates Derived from Green Acids: Ring-Opening Polymerization of Seven-Membered Cyclic Carbonates. Macromolecules, 2010, 43, 8007-8017.	4.8	59
10	Connecting Biomass and Petroleum Processing with a Chemical Bridge. Science, 2010, 329, 522-523.	12.6	288
11	A seawater-based biorefining strategy for fermentative production and chemical transformations of succinic acid. Energy and Environmental Science, 2011, 4, 1471.	30.8	64
12	Adapting a Wacker-type catalyst system to the palladium-catalyzed oxidative carbonylation of aliphatic polyols. Green Chemistry, 2011, 13, 292.	9.0	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.	0.8	2
14	Sorbitol dehydration in high temperature liquid water. Green Chemistry, 2011, 13, 873.	9.0	129
15	Oxidation of 5-hydroxymethylfurfural to maleic anhydride with molecular oxygen. Green Chemistry, 2011, 13, 554.	9.0	150
16	Selective Homogeneous Hydrogenation of Biogenic Carboxylic Acids with [Ru(TriPhos)H]⁺: A Mechanistic Study. Journal of the American Chemical Society, 2011, 133, 14349-14358.	13.7	233
17	Biomass Fractionation for the Biorefinery: Heteronuclear Multiple Quantum Coherenceâ€"Nuclear Magnetic Resonance Investigation of Lignin Isolated from Solvent Fractionation of Switchgrass. Journal of Agricultural and Food Chemistry, 2011, 59, 9232-9242.	5.2	77
18	Prediction of the Thermodynamic Properties of Key Products and Intermediates from Biomass. Journal of Physical Chemistry C, 2011, 115, 15686-15702.	3.1	57
19	Discrete, Solvent-Free Alkaline-Earth Metal Cations: MetalÂ·Â·Â·Fluorine Interactions and ROP Catalytic Activity. Journal of the American Chemical Society, 2011, 133, 9069-9087.	13.7	202
20	Cu-Based Catalysts Show Low Temperature Activity for Glycerol Conversion to Lactic Acid. ACS Catalysis, 2011, 1, 548-551.	11.2	147
21	Understanding and Controlling Reactivity of Unsaturated Oxygenates and Polyols on Metal Catalysts. ACS Catalysis, 2011, 1, 1284-1297.	11.2	101

#	Article	IF	Citations
22	Zinc and magnesium complexes supported by bulky multidentate amino-ether phenolate ligands: potent pre-catalysts for the immortalring-opening polymerisation of cyclic esters. Dalton Transactions, 2011, 40, 523-534.	3.3	111
23	Environmental Comparison of Biobased Chemicals from Glutamic Acid with Their Petrochemical Equivalents. Environmental Science & Technology, 2011, 45, 8521-8528.	10.0	51
24	Levulinic esters from the acid-catalysed reactions of sugars and alcohols as part of a bio-refinery. Green Chemistry, 2011, 13, 1676.	9.0	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.	30.8	626
26	Tuning selectivity of Pt/CaCO3 in glycerol hydrogenolysis â€" A Design of Experiments approach. Catalysis Communications, 2011, 13, 1-5.	3.3	62
27	Catalytic routes for the conversion of biomass into liquid hydrocarbon transportation fuels. Energy and Environmental Science, 2011, 4, 83-99.	30.8	747
28	Heterogeneous catalysis of the glycerol hydrogenolysis. Catalysis Science and Technology, 2011, 1, 179.	4.1	363
29	Selective hydrogenolysis of biomass-derived xylitol to ethylene glycol and propylene glycol on supported Ru catalysts. Green Chemistry, 2011, 13, 135-142.	9.0	211
30	Selective catalytic conversion of biobased carbohydrates to formic acid using molecular oxygen. Green Chemistry, 2011, 13, 2759.	9.0	176
31	The irruption of polymers from renewable resources on the scene of macromolecular science and technology. Green Chemistry, 2011, 13, 1061.	9.0	610
32	Investigation of glycerol polymerization in the clinker grinding process. Green Chemistry, 2011, 13, 143-148.	9.0	11
33	Algae as a source of renewable chemicals: opportunities and challenges. Green Chemistry, 2011, 13, 1399.	9.0	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.	0.9	4
36	Radiation and postradiation distillation of biopolymers: Lignin and chitin. High Energy Chemistry, 2011, 45, 470-474.	0.9	4
37	Green chemistry in the bulk chemicals industry. Kinetics and Catalysis, 2011, 52, 337-347.	1.0	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.	2.8	14

#	Article	IF	Citations
40	Prospects for electron-beam technology in plant biomass processing. Herald of the Russian Academy of Sciences, 2011, 81, 623-628.	0.6	11
41	Catalysis and characterization of carbon-supported ruthenium for cellulose hydrolysis. Applied Catalysis A: General, 2011, 407, 188-194.	4.3	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.	3.6	107
43	Catalytic dehydration of xylose to furfural: vanadyl pyrophosphate as source of active soluble species. Carbohydrate Research, 2011, 346, 2785-2791.	2.3	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.	38.1	739
45	The Emergence of Renewable and Sustainable Polymers. ACS Symposium Series, 2011, , 1-10.	0.5	8
46	Rheology of concentrated biomass. Korea Australia Rheology Journal, 2011, 23, 237-245.	1.7	25
47	Catalysis in biomass processing. Catalysis in Industry, 2011, 3, 218-249.	0.7	52
48	Production of liquid hydrocarbon fuels by catalytic conversion of biomass-derived levulinic acid. Green Chemistry, 2011, 13, 1755.	9.0	289
49	Catalytic conversion of lignocellulosic biomass to fine chemicals and fuels. Chemical Society Reviews, 2011, 40, 5588.	38.1	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.	2.6	89
51	â€œGreen chemistryâ€•â€“ a new paradigm for the basic organic chemical industry. Theoretical and Experimental Chemistry, 2011, 46, 371-383.	0.8	4
52	Activation of Amberlyst-70 for Alkene Oligomerization in Hydrophobic Media. Topics in Catalysis, 2011, 54, 447-457.	2.8	15
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.	2.8	113
54	Engineering microbial factories for synthesis of value-added products. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 873-890.	3.0	210
55	Microbial degradation of furanic compounds: biochemistry, genetics, and impact. Applied Microbiology and Biotechnology, 2011, 92, 1095-1105.	3.6	150
56	Routes to Potential Bioproducts from Lignocellulosic Biomass Lignin and Hemicelluloses. Bioenergy Research, 2011, 4, 246-257.	3.9	129
57	Magnesium and nickel(II) furan-2,5-dicarboxylate. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m327-m330.	0.4	5

#	Article	IF	Citations
58	Novel suberinâ€based biopolyesters: From synthesis to properties. Journal of Polymer Science Part A, 2011, 49, 2281-2291.	2.3	48
59	Synthesis and characterization of poly(2,5â€furan dicarboxylate)s based on a variety of diols. Journal of Polymer Science Part A, 2011, 49, 3759-3768.	2.3	305
60	Towards the Sustainable Production of Higherâ€Molecularâ€Weight Polyglycerol. Macromolecular Chemistry and Physics, 2011, 212, 1284-1293.	2.2	53
61	Celluloseâ€Based Sustainable Polymers: State of the Art and Future Trends. Macromolecular Rapid Communications, 2011, 32, 1299-1311.	3.9	153
62	Use of hybrid organicâ€siliceous catalysts for the selective conversion of glycerol. European Journal of Lipid Science and Technology, 2011, 113, 118-134.	1.5	15
63	Efficient Conversion of Furfuryl Alcohol into Alkyl Levulinates Catalyzed by an Organicâ€"Inorganic Hybrid Solid Acid Catalyst. ChemSusChem, 2011, 4, 112-118.	6.8	168
64	Direct Catalytic Synthesis of 5â€Methylfurfural from Biomassâ€Derived Carbohydrates. ChemSusChem, 2011, 4, 349-352.	6.8	90
65	Synthesis of 5â€(Hydroxymethyl)furfural in Ionic Liquids: Paving the Way to Renewable Chemicals. ChemSusChem, 2011, 4, 451-458.	6.8	237
66	Catalytic Conversion of Dihydroxyacetone to Lactic Acid Using Metal Salts in Water. ChemSusChem, 2011, 4, 768-777.	6.8	111
67	Synthesis of Biobased Succinonitrile from Glutamic Acid and Glutamine. ChemSusChem, 2011, 4, 785-791.	6.8	45
68	Isohexide Derivatives from Renewable Resources as Chiral Building Blocks. ChemSusChem, 2011, 4, 599-603.	6.8	76
69	Renewable Chemicals: Dehydroxylation of Glycerol and Polyols. ChemSusChem, 2011, 4, 1017-1034.	6.8	282
70	Production of Biofuels from Cellulose and Corn Stover Using Alkylphenol Solvents. ChemSusChem, 2011, 4, 1078-1081.	6.8	130
71	Rutheniumâ€Catalyzed Conversion of Levulinic Acid to Pyrrolidines by Reductive Amination. ChemSusChem, 2011, 4, 1578-1581.	6.8	102
72	Conversion of Biomassâ€Derived Levulinate and Formate Esters into Î³â€Valerolactone over Supported Gold Catalysts. ChemSusChem, 2011, 4, 1838-1843.	6.8	96
76	Hydrogenâ€Independent Reductive Transformation of Carbohydrate Biomass into Î³â€Valerolactone and Pyrrolidone Derivatives with Supported Gold Catalysts. Angewandte Chemie - International Edition, 2011, 50, 7815-7819.	13.8	316
77	Beyond Petrochemicals: The Renewable Chemicals Industry. Angewandte Chemie - International Edition, 2011, 50, 10502-10509.	13.8	464
78	Depolymerization of Cellulose Assisted by a Nonthermal Atmospheric Plasma. Angewandte Chemie - International Edition, 2011, 50, 8964-8967.	13.8	85

#	Article	IF	Citations
79	The conversion of lignocellulosics to levulinic acid. Biofuels, Bioproducts and Biorefining, 2011, 5, 198-214.	3.7	538
80	Metalâ€Free Dehydration of Glucose to 5â€(Hydroxymethyl)furfural in Ionic Liquids with Boric Acid as a Promoter. Chemistry - A European Journal, 2011, 17, 1456-1464.	3.3	177
81	On the Dielsâ€"Alder Approach to Solely Biomassâ€Derived Polyethylene Terephthalate (PET): Conversion of 2,5â€Dimethylfuran and Acrolein into <i>p</i>â€Xylene. Chemistry - A European Journal, 2011, 17, 12452-12457.	3.3	146
82	Cellulose and Heterogeous Catalysisâ€‰â€"â€‰A Combination for Future. Chemie-Ingenieur-Technik, 2011, 83, 411-419.	0.8	17
83	Utilisation of biomass for sustainable fuels and chemicals: Molecules, methods and metrics. Catalysis Today, 2011, 167, 3-13.	4.4	157
84	Direct routes from biomass to end-products. Catalysis Today, 2011, 167, 31-36.	4.4	42
85	Techno-economic analysis of dimethylfuran (DMF) and hydroxymethylfurfural (HMF) production from pure fructose in catalytic processes. Chemical Engineering Journal, 2011, 169, 329-338.	12.7	219
86	Selective production of hemicellulose-derived carbohydrates from wheat straw using dilute HCl or FeCl3 solutions under mild conditions. X-ray and thermo-gravimetric analysis of the solid residues. Bioresource Technology, 2011, 102, 5917-5923.	9.6	59
87	Pillared H-MCM-36 mesoporous and H-MCM-22 microporous materials for conversion of levoglucosan: Influence of varying acidity. Applied Catalysis A: General, 2011, 397, 13-21.	4.3	23
88	Cellulose reactivity and glycosidic bond cleavage in aqueous phase by catalytic and non catalytic transformations. Applied Catalysis A: General, 2011, 402, 1-10.	4.3	82
89	Environmental assessment of propionic acid produced in an agricultural biomass-based biorefinery system. Journal of Cleaner Production, 2011, 19, 1257-1265.	9.3	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. Annals of Botany, 2011, 108, 407-418.	2.9	313
92	Continuous-Flow Processes in Heterogeneously Catalyzed Transformations of Biomass Derivatives into Fuels and Chemicals. Challenges, 2012, 3, 114-132.	1.7	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. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 103-110.	2.2	7
96	Pd-Catalyzed Telomerization of 1,3-Dienes with Multifunctional Renewable Substrates: Versatile Routes for the Valorization of Biomass-Derived Platform Molecules. Topics in Organometallic Chemistry, 2012, , 45-101.	0.7	13

#	Article	IF	Citations
97	Environmental sustainability â€“ aspects and criteria in forest biorefineries. Sustainability Accounting, Management and Policy Journal, 2012, 3, 161-185.	4.1	11
98	Hydrolysis of chitosan to yield levulinic acid and 5-hydroxymethylfurfural in water under microwave irradiation. Green Chemistry, 2012, 14, 1480.	9.0	161
99	Replacing fossil based PET with biobased PEF; process analysis, energy and GHG balance. Energy and Environmental Science, 2012, 5, 6407.	30.8	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 Naâ€“based Zeolites. Chinese Journal of Catalysis, 2012, 33, 1772-1777.	14.0	70
102	A roadmap for conversion of lignocellulosic biomass to chemicals and fuels. Current Opinion in Chemical Engineering, 2012, 1, 218-224.	7.8	273
103	Formation of a renewable amide, 3-acetamido-5-acetylfuran, via direct conversion of N-acetyl-d-glucosamine. RSC Advances, 2012, 2, 4642.	3.6	110
104	Selective conversion of furfuryl alcohol to 1,2-pentanediol over a Ru/MnOx catalyst in aqueous phase. Green Chemistry, 2012, 14, 3402.	9.0	117
105	Molecular mapping of the acid catalysed dehydration of fructose. Chemical Communications, 2012, 48, 5850.	4.1	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.	11.2	38
107	Interplay Between Viscoelastic and Chemical Tunings in Fatty-Acid-Based Polyester Adhesives: Engineering Biomass toward Functionalized Step-Growth Polymers and Soft Networks. Biomacromolecules, 2012, 13, 1933-1944.	5.4	47
108	Product developments in the bioâ€based chemicals arena. Biofuels, Bioproducts and Biorefining, 2012, 6, 606-624.	3.7	145
109	Aerobic Oxidation of 5-(Hydroxymethyl)furfural in Ionic Liquids with Solid Ruthenium Hydroxide Catalysts. Catalysis Letters, 2012, 142, 1089-1097.	2.6	50
110	Catalytic transformations of biomass-derived acids into advanced biofuels. Catalysis Today, 2012, 195, 162-168.	4.4	108
111	Hydrogenolysis through catalytic transfer hydrogenation: Glycerol conversion to 1,2-propanediol. Catalysis Today, 2012, 195, 22-31.	4.4	91
112	Production of 1,5-pentanediol from biomass via furfural and tetrahydrofurfuryl alcohol. Catalysis Today, 2012, 195, 136-143.	4.4	136
113	Studies of the synthesis of transition metal phosphides and their activity in the hydrodeoxygenation of a biofuel model compound. Journal of Catalysis, 2012, 294, 184-198.	6.2	214
114	Thermochemical processing of macroalgae: a late bloomer in the development of third-generation biofuels?. Biofuels, 2012, 3, 441-461.	2.4	74

#	Article	IF	Citations
115	Enzymatic isomerization of glucose and xylose in ionic liquids. Catalysis Science and Technology, 2012, 2, 291-295.	4.1	25
116	Solvent-Free Preparation of 5-(Î±-D-Glucosyloxymethyl)furfural from Isomaltuloseâ€"Choline Chloride Melts. Synthetic Communications, 2012, 42, 3112-3116.	2.1	17
117	Selective oxidation of complex, water-insoluble biomass to formic acid using additives as reaction accelerators. Energy and Environmental Science, 2012, 5, 7956.	30.8	163
118	Electron-beam synthesis of fuel in the gas phase. Radiation Physics and Chemistry, 2012, 81, 1440-1444.	2.8	12
119	Valorization of Biomass: Deriving More Value from Waste. Science, 2012, 337, 695-699.	12.6	1,791
120	Conversion of biomass to selected chemical products. Chemical Society Reviews, 2012, 41, 1538-1558.	38.1	2,169
121	Furandicarboxylic Acid (FDCA), A Versatile Building Block for a Very Interesting Class of Polyesters. ACS Symposium Series, 2012, , 1-13.	0.5	206
122	Biobased Chemicals from Conception toward Industrial Reality: Lessons Learned and To Be Learned. ACS Catalysis, 2012, 2, 1487-1499.	11.2	163
123	One-pot reduction of 5-hydroxymethylfurfural via hydrogen transfer from supercritical methanol. Green Chemistry, 2012, 14, 2457.	9.0	164
124	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. Green Chemistry, 2012, 14, 3087.	9.0	74
125	Prediction of the Thermodynamic Properties of Key Products and Intermediates from Biomass. II. Journal of Physical Chemistry C, 2012, 116, 20738-20754.	3.1	13
126	Continuous Dehydration and Hydrogenolysis of Glycerol over Non-Chromium Copper Catalyst: Laboratory-Scale Process Studies. Organic Process Research and Development, 2012, 16, 1043-1052.	2.7	40
127	Solid acid co-catalyst for the hydrogenolysis of glycerol to 1,3-propanediol over Ir-ReOx/SiO2. Applied Catalysis A: General, 2012, 433-434, 128-134.	4.3	164
128	Highly dispersed supported ruthenium oxide as an aerobic catalyst for acetic acid synthesis. Applied Catalysis A: General, 2012, 433-434, 243-250.	4.3	14
129	Availability of protein-derived amino acids as feedstock for the production of bio-based chemicals. Biomass and Bioenergy, 2012, 44, 168-181.	5.7	140
130	Biomass to chemicals: Design of an extractive-reaction process for the production of 5-hydroxymethylfurfural. Computers and Chemical Engineering, 2012, 42, 130-137.	3.8	36
131	One-pot preparation of methyl levulinate from catalytic alcoholysis of cellulose in near-critical methanol. Carbohydrate Research, 2012, 358, 37-39.	2.3	46
132	Sorbitol transformation in aqueous medium: Influence of metal/acid balance on reaction selectivity. Catalysis Today, 2012, 189, 117-122.	4.4	17

#	Article	IF	Citations
133	Direct downstream catalysis: From succinate to its diethyl ester without intermediate acidification. Chemical Engineering Journal, 2012, 200-202, 637-644.	12.7	18
134	High yield production of levulinic acid by catalytic partial oxidation of cellulose in aqueous media. Energy and Environmental Science, 2012, 5, 9773.	30.8	82
135	Selective hydrogenation of higher saturated carboxylic acids to alcohols using a ReOxâ€“Pd/SiO2 catalyst. Catalysis Science and Technology, 2012, 2, 2221.	4.1	94
136	Process synthesis for addressing the sustainable energy systems and environmental issues. AICHE Journal, 2012, 58, 3370-3389.	3.6	49
137	Development of Heterogeneous Catalysts for the Conversion of Levulinic Acid to Î³â€Valerolactone. ChemSusChem, 2012, 5, 1657-1667.	6.8	456
138	A Simple Oneâ€Pot Dehydration Process to Convert <i>N</i>â€acetylâ€‹<scp>D</scp>â€glucosamine into a Nitrogenâ€Containing Compound, 3â€acetamidoâ€5â€acetylfuran. ChemSusChem, 2012, 5, 1767-1772.	6.8	104
139	Biodiesel biorefinery: opportunities and challenges for microbial production of fuels and chemicals from glycerol waste. Biotechnology for Biofuels, 2012, 5, 48.	6.2	186
140	Acid-catalyzed conversion of furfuryl alcohol to ethyl levulinate in liquid ethanol. Energy and Environmental Science, 2012, 5, 8990.	30.8	146
141	Advances in the Use of BiOHÂ® Polyols in Polyurethanes. ACS Symposium Series, 2012, , 165-181.	0.5	6
142	Recent advances in metallo/organo-catalyzed immortal ring-opening polymerization of cyclic carbonates. Catalysis Science and Technology, 2012, 2, 898.	4.1	96
143	Production of levulinic acid and gamma-valerolactone (GVL) from cellulose using GVL as a solvent in biphasic systems. Energy and Environmental Science, 2012, 5, 8199.	30.8	316
144	Tunable copper-catalyzed chemoselective hydrogenolysis of biomass-derived Î³-valerolactone into 1,4-pentanediol or 2-methyltetrahydrofuran. Green Chemistry, 2012, 14, 935.	9.0	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. Green Chemistry, 2012, 14, 1260.	9.0	243
147	Biomass-Derived Platform Chemicals: Thermodynamic Studies on the Extraction of 5-Hydroxymethylfurfural from Ionic Liquids. Journal of Chemical & Engineering Data, 2012, 57, 2985-2991.	1.9	26
148	Highly efficient hydrogenation of biomass-derived levulinic acid to Î³-valerolactone catalyzed by iridium pincer complexes. Green Chemistry, 2012, 14, 2388.	9.0	161
149	Experimental and theoretical studies of the acid-catalyzed conversion of furfuryl alcohol to levulinic acid in aqueous solution. Energy and Environmental Science, 2012, 5, 6981.	30.8	136
150	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. Green Chemistry, 2012, 14, 614.	9.0	151

#	Article	IF	Citations
151	Selective oxidation of glycerol with oxygen in base-free solution over MWCNTs supported PtSb alloy nanoparticles. Applied Catalysis B: Environmental, 2012, 127, 212-220.	20.2	139
152	Production of ethyl levulinate by direct conversion of wheat straw in ethanol media. Bioresource Technology, 2012, 121, 93-99.	9.6	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. Bioresource Technology, 2012, 126, 92-100.	9.6	25
154	Protective group-free synthesis of 3,4-dihydroxytetrahydrofurans from carbohydrates: formal total synthesis of sphydrofuran. Carbohydrate Research, 2012, 362, 30-37.	2.3	10
155	Thiol-promoted catalytic synthesis of diphenolic acid with sulfonated hyperbranched poly(arylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.1	64
156	Carbohydrate Hydrogenolysis. ACS Symposium Series, 2012, , 183-196.	0.5	6
157	Triacetic acid lactone as a potential biorenewable platform chemical. Green Chemistry, 2012, 14, 1850.	9.0	117
158	Reprogramming Microbial Metabolic Pathways. Sub-Cellular Biochemistry, 2012, , .	2.4	11
159	Efficient microwave-assisted production of furfural from C5 sugars in aqueous media catalysed by BrÃ¶nsted acidic ionic liquids. Catalysis Science and Technology, 2012, 2, 1828.	4.1	87
160	Catalysis for Alternative Energy Generation. , 2012, , .		29
161	DESIGN, SYNTHESIS, AND APPLICATION OF NOVEL FLAME RETARDANTS DERIVED FROM BIOMASS. BioResources, 2012, 7, .	1.0	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 stabilizerâ€free dispersion polymerization. Journal of Polymer Science Part A, 2012, 50, 3606-3617.	2.3	13
165	Cuâ€"ZrO2 nanocomposite catalyst for selective hydrogenation of levulinic acid and its ester to Î³-valerolactone. Green Chemistry, 2012, 14, 1064.	9.0	313
166	Ethylene glycol: properties, synthesis, and applications. Chemical Society Reviews, 2012, 41, 4218.	38.1	819
167	Renewable linear alpha olefins by selective ethenolysis of decarboxylated unsaturated fatty acids. European Journal of Lipid Science and Technology, 2012, 114, 911-918.	1.5	39
168	Succinic acid production from <i>n</i>â€alkanes. Engineering in Life Sciences, 2012, 12, 560-566.	3.6	15

#	Article	IF	Citations
169	Derivation and synthesis of renewable surfactants. Chemical Society Reviews, 2012, 41, 1499-1518.	38.1	237
170	Fast and Selective Sugar Conversion to Alkyl Lactate and Lactic Acid with Bifunctional Carbonâ€“Silica Catalysts. Journal of the American Chemical Society, 2012, 134, 10089-10101.	13.7	337
171	Semicrystalline Polyesters Based on a Novel Renewable Building Block. Macromolecules, 2012, 45, 5069-5080.	4.8	78
172	Bimetallic catalysts for upgrading of biomass to fuels and chemicals. Chemical Society Reviews, 2012, 41, 8075.	38.1	1,167
176	Hydrogenolysis Goes Bio: From Carbohydrates and Sugar Alcohols to Platform Chemicals. Angewandte Chemie - International Edition, 2012, 51, 2564-2601.	13.8	746
177	Synthesis of 1â€Octanol and 1,1â€Dioctyl Ether from Biomassâ€Derived Platform Chemicals. Angewandte Chemie - International Edition, 2012, 51, 8615-8619.	13.8	125
178	Deoxygenation of Biomassâ€Derived Feedstocks: Oxorheniumâ€Catalyzed Deoxydehydration of Sugars and Sugar Alcohols. Angewandte Chemie - International Edition, 2012, 51, 8082-8086.	13.8	220
179	Technoâ€economic assessment of the production of bioâ€based chemicals from glutamic acid. Biofuels, Bioproducts and Biorefining, 2012, 6, 177-187.	3.7	19
180	Succinate production in <i>Escherichia coli</i>. Biotechnology Journal, 2012, 7, 213-224.	3.5	159
181	Prediction of dynamic metabolic behavior of <i>Pediococcus pentosaceus</i> producing lactic acid from lignocellulosic sugars. Biotechnology Progress, 2012, 28, 623-635.	2.6	6
182	Total Hydrogenation of Furfural over a Silicaâ€Supported Nickel Catalyst Prepared by the Reduction of a Nickel Nitrate Precursor. ChemCatChem, 2012, 4, 1791-1797.	3.7	241
183	Solid Acidâ€Catalyzed Cellulose Hydrolysis Monitored by Inâ€…Situ ATRâ€IR Spectroscopy. ChemSusChem, 2012, 5, 430-437.	6.8	46
184	Selective Reduction of Biomass by Hydriodic Acid and Its Inâ€…Situ Regeneration from Iodine by Metal/Hydrogen. ChemSusChem, 2012, 5, 1218-1222.	6.8	42
185	Solventâ€Free Catalytic Depolymerization of Cellulose to Waterâ€Soluble Oligosaccharides. ChemSusChem, 2012, 5, 1449-1454.	6.8	214
186	Tuning the Acid/Metal Balance of Carbon Nanofiberâ€Supported Nickel Catalysts for Hydrolytic Hydrogenation of Cellulose. ChemSusChem, 2012, 5, 1549-1558.	6.8	131
187	Selective Oxidative Decarboxylation of Amino Acids to Produce Industrially Relevant Nitriles by Vanadium Chloroperoxidase. ChemSusChem, 2012, 5, 1199-1202.	6.8	58
188	Oneâ€Pot Selective Conversion of Hemicellulose (Xylan) to Xylitol under Mild Conditions. ChemSusChem, 2012, 5, 1383-1387.	6.8	64
189	Catalysis for Lignocellulosic Biomass Processing: Methodological Aspects. Catalysis Letters, 2012, 142, 676-689.	2.6	10

#	Article	IF	Citations
190	Catalysis for Lignocellulosic Biomass Processing: Methodological Aspects. Catalysis Letters, 2012, 142, 817-829.	2.6	4
191	Influence of Reaction Conditions on Diacid Formation During Au-Catalyzed Oxidation of Glycerol and Hydroxymethylfurfural. Topics in Catalysis, 2012, 55, 24-32.	2.8	91
192	Effect of Addition Mode of Re in Bimetallic Pdâ€"Re/TiO2 Catalysts Upon the Selective Aqueous-Phase Hydrogenation of Succinic Acid to 1,4-Butanediol. Topics in Catalysis, 2012, 55, 466-473.	2.8	78
193	Catalytic conversion of lignocellulosic biomass to fuels: Process development and technoeconomic evaluation. Chemical Engineering Science, 2012, 67, 57-67.	3.8	113
194	Rake mechanism for the deoxygenation of ethanol over a supported Ni2P/SiO2 catalyst. Journal of Catalysis, 2012, 290, 1-12.	6.2	64
195	Utilisation of waste bread for fermentative succinic acid production. Biochemical Engineering Journal, 2012, 65, 10-15.	3.6	213
196	Promising results with YXY Diesel components in an ESC test cycle using a PACCAR Diesel engine. Biomass and Bioenergy, 2012, 36, 151-159.	5.7	63
197	Evaluation of alkaline pretreatment temperature on a multi-product basis for the co-production of glucose and hemicellulose based films from lignocellulosic biomass. Bioresource Technology, 2012, 103, 440-445.	9.6	44
198	New insights on monosaccharidesâ€™ isomerization, dehydration and fragmentation in hot-compressed water. Journal of Supercritical Fluids, 2012, 61, 146-156.	3.2	52
199	Conceptual net energy output for biofuel production from lignocellulosic biomass through biorefining. Progress in Energy and Combustion Science, 2012, 38, 583-598.	31.2	140
200	Progress and future prospects for pentose-specific biocatalysts in biorefining. Process Biochemistry, 2012, 47, 346-357.	3.7	70
201	Combined effect of heat and radiation on degradation of cellulose. High Energy Chemistry, 2012, 46, 292-293.	0.9	0
202	Furfuralâ€"A Promising Platform for Lignocellulosic Biofuels. ChemSusChem, 2012, 5, 150-166.	6.8	1,129
203	Synthesis of novel stimuliâ€responsive polyglycerolâ€based hydrogels. European Journal of Lipid Science and Technology, 2012, 114, 92-99.	1.5	19
204	Wheatâ€based biorefining strategy for fermentative production and chemical transformations of succinic acid. Biofuels, Bioproducts and Biorefining, 2012, 6, 88-104.	3.7	43
205	Mechanical deconstruction of lignocellulose cell walls and their enzymatic saccharification. Cellulose, 2013, 20, 807-818.	4.9	148
206	Innovations in Green Chemistry and Green Engineering. , 2013, , .		25
207	Synthesis of Î³-valerolactone using a continuous-flow reactor. RSC Advances, 2013, 3, 16283.	3.6	58

#	Article	IF	Citations
208	Continuous succinic acid fermentation by Actinobacillus succinogenes. Biochemical Engineering Journal, 2013, 73, 5-11.	3.6	65
209	Aromatics from Lignocellulosic Biomass: Economic Analysis of the Production of pâ€Xylene from 5â€Hydroxymethylfurfural. AICHE Journal, 2013, 59, 2079-2087.	3.6	69
210	Sweet Solution for Sticky Problems: Chemoreological Design of Self-Adhesive Gel Materials Derived From Lipid Biofeedstocks and Adhesion Tailoring via Incorporation of Isosorbide. Macromolecules, 2013, 46, 3395-3405.	4.8	48
211	Conversion of Levulinate into Succinate through Catalytic Oxidative Carbonï£¿Carbon Bond Cleavage with Dioxygen. ChemSusChem, 2013, 6, 2255-2258.	6.8	24
212	A future perspective on the role of industrial biotechnology for chemicals production. Chemical Engineering Research and Design, 2013, 91, 2029-2036.	5.6	46
213	Reductive Deoxygenation of Alcohols: Catalytic Methods Beyond Bartonâ€"McCombie Deoxygenation. European Journal of Organic Chemistry, 2013, 2013, 7017-7027.	2.4	91
214	Corynebacterium glutamicum. Microbiology Monographs, 2013, , .	0.6	28
215	Differential sensitivities of the growth of Escherichia coli to acrylate under aerobic and anaerobic conditions and its effect on product formation. Biotechnology Letters, 2013, 35, 1839-1843.	2.2	10
216	Influence of delignification efficiency with alkaline peroxide on the digestibility of furfural residues for bioethanol production. Bioresource Technology, 2013, 146, 208-214.	9.6	36
217	The damaging effects of short chain fatty acids on Escherichia coli membranes. Applied Microbiology and Biotechnology, 2013, 97, 8317-8327.	3.6	179
218	Production of Furfural from Lignocellulosic Biomass Using Beta Zeolite and Biomass-Derived Solvent. Topics in Catalysis, 2013, 56, 1775-1781.	2.8	111
219	A Tailored Microenvironment for Catalytic Biomass Conversion in Inorganicâ€"Organic Nanoreactors. Angewandte Chemie - International Edition, 2013, 52, 10349-10351.	13.8	66
220	Catalytic conversion of biomass-derived levulinic acid to valerate esters as oxygenated fuels using supported ruthenium catalysts. Green Chemistry, 2013, 15, 2967.	9.0	123
221	Reaction Pathways and Energetics of Etheric Câ€"O Bond Cleavage Catalyzed by Lanthanide Triflates. ACS Catalysis, 2013, 3, 1908-1914.	11.2	48
222	Catalysis in Biomass Processing. , 2013, , 559-586.		6
223	Metabolic engineering of Escherichia coli for the production of succinic acid from glucose. Applied Biochemistry and Microbiology, 2013, 49, 629-637.	0.9	4
225	Gold Nanoclusters Confined in a Supercage of Y Zeolite for Aerobic Oxidation of HMF under Mild Conditions. Chemistry - A European Journal, 2013, 19, 14215-14223.	3.3	184
226	Biogenic metalâ€"organic frameworks: 2,5-Furandicarboxylic acid as versatile building block. Microporous and Mesoporous Materials, 2013, 181, 217-221.	4.4	40

#	Article	IF	Citations
227	Biotransformation of glycerol to 3-hydroxypropionaldehyde: Improved production by in situ complexation with bisulfite in a fed-batch mode and separation on anion exchanger. Journal of Biotechnology, 2013, 168, 534-542.	3.8	22
228	Bisulfite as scavenger for enhanced biotechnological production of 3-hydroxypropionaldehyde by Lactobacillus reuteri. Biochemical Engineering Journal, 2013, 79, 239-245.	3.6	17
229	Chemical conversion of biomass-derived hexose sugars to levulinic acid over sulfonic acid-functionalized graphene oxide catalysts. Green Chemistry, 2013, 15, 2935.	9.0	195
230	Study of Monometallic Pd/TiO₂ Catalysts for the Hydrogenation of Succinic Acid in Aqueous Phase. ACS Catalysis, 2013, 3, 2327-2335.	11.2	72
231	Reactions of p-coumaryl alcohol model compounds with dimethyl carbonate. Towards the upgrading of lignin building blocks. Green Chemistry, 2013, 15, 3195.	9.0	44
232	Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals. Green Chemistry, 2013, 15, 2786.	9.0	70
233	Catalytic Reduction of Biomass-Derived Furanic Compounds with Hydrogen. ACS Catalysis, 2013, 3, 2655-2668.	11.2	584
234	High-throughput screening of monometallic catalysts for aqueous-phase hydrogenation of biomass-derived oxygenates. Applied Catalysis B: Environmental, 2013, 140-141, 98-107.	20.2	78
235	1983â€“2013: the long wave of biocatalysis. Trends in Biotechnology, 2013, 31, 120-121.	9.3	6
236	Concurrent formation of furan-2,5- and furan-2,4-dicarboxylic acid: unexpected aspects of the Henkel reaction. RSC Advances, 2013, 3, 15678-15686.	3.6	53
237	Conversion of furfuryl alcohol to ethyl levulinate using porous aluminosilicate acid catalysts. Catalysis Today, 2013, 218-219, 76-84.	4.4	111
238	Bioconversion of Beetle-Killed Lodgepole Pine Using SPORL: Process Scale-up Design, Lignin Coproduct, and High Solids Fermentation without Detoxification. Industrial & Engineering Chemistry Research, 2013, 52, 16057-16065.	3.7	59
239	Kinetics of levulinic acid and furfural production from MiscanthusÃ—giganteus. Bioresource Technology, 2013, 149, 216-224.	9.6	106
240	A Defunctionalization Concept for the Convenient Synthesis of Bis(5â€arylfuranâ€2â€yl)methane Scaffolds. European Journal of Organic Chemistry, 2013, 2013, 8083-8086.	2.4	4
241	Sodium Ion Interactions with Aqueous Glucose: Insights from Quantum Mechanics, Molecular Dynamics, and Experiment. Journal of Physical Chemistry B, 2014, 118, 1990-2000.	2.6	49
242	Proteome response of Corynebacterium glutamicum to high concentration of industrially relevant C4 and C5 dicarboxylic acids. Journal of Proteomics, 2013, 85, 65-88.	2.4	12
243	THF co-solvent enhances hydrocarbon fuel precursor yields from lignocellulosic biomass. Green Chemistry, 2013, 15, 3140.	9.0	228
244	Highly selective production of value-added Î³-valerolactone from biomass-derived levulinic acid using the robust Pd nanoparticles. Applied Catalysis A: General, 2013, 468, 52-58.	4.3	117

#	Article	IF	Citations
245	Hydrogenolysis of CO bond over Re-modified Ir catalyst in alkane solvent. Applied Catalysis A: General, 2013, 468, 418-425.	4.3	74
246	Shale Gas Revolution: An Opportunity for the Production of Biobased Chemicals?. Angewandte Chemie - International Edition, 2013, 52, 11980-11987.	13.8	278
247	Die Schiefergasrevolution: eine Chance zur Herstellung von Chemikalien auf Biobasis?. Angewandte Chemie, 2013, 125, 12198-12206.	2.0	40
248	Green chemistry and the biorefinery concept. Sustainable Chemical Processes, 2013, 1, .	2.3	52
249	Efficient and selective conversion of fructose to 5-hydroxymethylfurfural over metal exchanged heteropoly tungstate supported on tin oxide catalysts. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2013, 5, 232-238.	1.1	11
250	Recent Advances in Catalytic Conversion of Glycerol. Catalysis Reviews - Science and Engineering, 2013, 55, 369-453.	12.9	167
251	Green chemistry: development trajectory. Russian Chemical Reviews, 2013, 82, 616-623.	6.5	24
252	Hydrogen-free synthesis of 1,2-propanediol from glycerol over Cuâ€“Mgâ€“Al catalysts. RSC Advances, 2013, 3, 16569.	3.6	47
253	Dehydration of Different Ketoses and Aldoses to 5â€Hydroxymethylfurfural. ChemSusChem, 2013, 6, 1681-1687.	6.8	90
254	BrÃ¸nsted acidic ionic liquids catalyze the high-yield production of diphenolic acid/esters from renewable levulinic acid. Green Chemistry, 2013, 15, 81-84.	9.0	76
255	Enzyme-Catalyzed Synthesis of Unsaturated Aliphatic Polyesters Based on Green Monomers from Renewable Resources. Biomolecules, 2013, 3, 461-480.	4.0	85
256	Waste Not, Want Not: Mild and Selective Catalytic Oxidation of Uronic Acids. ChemSusChem, 2013, 6, 1640-1645.	6.8	20
257	Direct oxidation of secondary alcohol to ester by performic acid. Green Chemistry, 2013, 15, 3332.	9.0	7
258	High molecular weight poly(ethylene-2,5-furanoate); critical aspects in synthesis and mechanical property determination. Journal of Polymer Science Part A, 2013, 51, 4191-4199.	2.3	252
259	pHâ€Induced Lignin Surface Modification to Reduce Nonspecific Cellulase Binding and Enhance Enzymatic Saccharification of Lignocelluloses. ChemSusChem, 2013, 6, 919-927.	6.8	219
260	Highly efficient production of lactic acid from cellulose using lanthanide triflate catalysts. Green Chemistry, 2013, 15, 2091.	9.0	142
261	Gamma-valerolactone, a sustainable platform molecule derived from lignocellulosic biomass. Green Chemistry, 2013, 15, 584.	9.0	868
262	Valorisation of bakery waste for succinic acid production. Green Chemistry, 2013, 15, 690.	9.0	157

#	Article	IF	Citations
263	Bio-based epoxy resin from itaconic acid and its thermosets cured with anhydride and comonomers. Green Chemistry, 2013, 15, 245-254.	9.0	261
264	A kinetic study of acid catalysed hydrolysis of sugar cane bagasse to levulinic acid. Chemical Engineering Journal, 2013, 217, 61-70.	12.7	153
265	Simulation and economic analysis of 5-hydroxymethylfurfural conversion to 2,5-furandicarboxylic acid. Computers and Chemical Engineering, 2013, 52, 26-34.	3.8	54
266	Direct conversion of citrus peel waste into hydroxymethylfurfural in ionic liquid by mediation of fluorinated metal catalysts. Journal of Industrial and Engineering Chemistry, 2013, 19, 523-528.	5.8	17
267	A Versatile Aqueous Reduction of Bioâ€Based Carboxylic Acids using Syngas as a Hydrogen Source. ChemSusChem, 2013, 6, 42-46.	6.8	25
268	Application of Molecular Sieves in Transformations of Biomass and Biomass-Derived Feedstocks. Catalysis Reviews - Science and Engineering, 2013, 55, 1-78.	12.9	142
269	Room temperature versatile conversion of biomass-derived compounds by means of supported TiO2 photocatalysts. Journal of Molecular Catalysis A, 2013, 366, 156-162.	4.8	46
270	Optimization of Hydrothermal Pretreatment of Lignocellulosic Biomass in the Bioethanol Production Process. ChemSusChem, 2013, 6, 110-122.	6.8	264
271	Potential of bioethanol as a chemical building block for biorefineries: Preliminary sustainability assessment of 12 bioethanol-based products. Bioresource Technology, 2013, 135, 490-499.	9.6	195
272	Production and upgrading of 5-hydroxymethylfurfural using heterogeneous catalysts and biomass-derived solvents. Green Chemistry, 2013, 15, 85-90.	9.0	310
273	Dolomite (CaMg(CO3)2) as a recyclable natural catalyst in Henry, Knoevenagel, and Michael reactions. Journal of Molecular Catalysis A, 2013, 366, 36-42.	4.8	31
274	Bioâ€based production of organic acids with <i><scp>C</scp>orynebacterium glutamicum</i>. Microbial Biotechnology, 2013, 6, 87-102.	4.2	154
275	Hydroxymethylfurfural, A Versatile Platform Chemical Made from Renewable Resources. Chemical Reviews, 2013, 113, 1499-1597.	47.7	2,380
276	Highly Selective Bimetallic Ptâ€Cu/Mg(Al)O Catalysts for the Aqueousâ€Phase Reforming of Glycerol. ChemCatChem, 2013, 5, 529-537.	3.7	34
277	Stable vapor-phase conversion of tetrahydrofurfuryl alcohol into 3,4-2H-dihydropyran. Applied Catalysis A: General, 2013, 453, 213-218.	4.3	32
278	Engineering Biomass Conversion Processes: A Systems Perspective. AIChE Journal, 2013, 59, 3-18.	3.6	62
279	Biomass as Feedstock in the Chemical Industry - An Examination from an Exergetic Point of View. Chemical Engineering and Technology, 2013, 36, 233-240.	1.5	11
280	Biosynthesis â€œdebuggedâ€: Novel bioproduction strategies. Engineering in Life Sciences, 2013, 13, 4-18.	3.6	51

#	Article	IF	Citations
281	Low pH d-xylonate production with Pichia kudriavzevii. Bioresource Technology, 2013, 133, 555-562.	9.6	68
282	Biosynthesis of 3-hydroxypropionic acid from glycerol in recombinant Escherichia coli expressing Lactobacillus brevis dhaB and dhaR gene clusters and E. coli K-12 aldH. Bioresource Technology, 2013, 135, 432-439.	9.6	47
283	Influence of reactor design on cyclic carbonate synthesis catalysed by a bimetallic aluminium(salen) complex. Journal of CO2 Utilization, 2013, 2, 24-28.	6.8	31
284	Experimental studies on the pyrolysis of humins from the acid-catalysed dehydration of C6-sugars. Journal of Analytical and Applied Pyrolysis, 2013, 104, 299-307.	5.5	72
285	Recent advances in lowâ€cost carbon fiber manufacture from lignin. Journal of Applied Polymer Science, 2013, 130, 713-728.	2.6	542
286	Coupled Enzymatic Alcoholâ€toâ€Amine Conversion of Isosorbide using Engineered Transaminases and Dehydrogenases. ChemCatChem, 2013, 5, 3374-3383.	3.7	33
288	Enzymatic reduction of levulinic acid by engineering the substrate specificity of 3-hydroxybutyrate dehydrogenase. Bioresource Technology, 2013, 134, 377-380.	9.6	28
289	Radiation-thermal transformations and distillation of lipids and disperse systems on their basis. High Energy Chemistry, 2013, 47, 21-26.	0.9	0
290	Microwave-assisted conversion of carbohydrates to levulinic acid: an essential step in biomass conversion. Green Chemistry, 2013, 15, 439-445.	9.0	188
291	Electricity Storage in Biofuels: Selective Electrocatalytic Reduction of Levulinic Acid to Valeric Acid or Î³â€Valerolactone. ChemSusChem, 2013, 6, 674-686.	6.8	107
292	Direct conversion of cellulose to levulinic acid and gamma-valerolactone using solid acid catalysts. Catalysis Science and Technology, 2013, 3, 927-931.	4.1	213
293	Metabolic engineering of Escherichia coli: A sustainable industrial platform for bio-based chemical production. Biotechnology Advances, 2013, 31, 1200-1223.	11.7	181
294	5-Hydroxymethylfurfural Synthesis from Hexoses Is Autocatalytic. ACS Catalysis, 2013, 3, 760-763.	11.2	90
295	Green chemistry and the ocean-based biorefinery. Green Chemistry, 2013, 15, 860.	9.0	214
296	Food waste as a valuable resource for the production of chemicals, materials and fuels. Current situation and global perspective. Energy and Environmental Science, 2013, 6, 426.	30.8	874
297	Biopropionic acid production via molybdenum-catalyzed deoxygenation of lactic acid. Green Chemistry, 2013, 15, 982.	9.0	35
298	An unprecedented use for glycerol: chemoselective reducing agent for sulfoxides. Green Chemistry, 2013, 15, 999.	9.0	65
299	Catalytic hydrogenation of levulinic acid in aqueous phase. Journal of Organometallic Chemistry, 2013, 724, 297-299.	1.8	71

#	Article	IF	Citations
300	Hydrogenation of levulinic acid to Î³-valerolactone using ruthenium nanoparticles. Inorganica Chimica Acta, 2013, 397, 124-128.	2.4	80
301	Performance, structure and mechanism of Pdâ€"Ag alloy catalyst for selective oxidation of glycerol to dihydroxyacetone. Journal of Catalysis, 2013, 300, 205-216.	6.2	117
302	Lactic acid as a platform chemical in the biobased economy: the role of chemocatalysis. Energy and Environmental Science, 2013, 6, 1415.	30.8	651
303	Oxidation Catalysts for Green Chemistry. , 2013, , 247-295.		0
304	d-Glucose-derived PET copolyesters with enhanced Tg. Polymer Chemistry, 2013, 4, 3524.	3.9	55
305	Mechanocatalytic Depolymerization of Dry (Ligno)cellulose As an Entry Process for High-Yield Production of Furfurals. ACS Catalysis, 2013, 3, 993-997.	11.2	126
306	Synthesis of acetic acid from ethanolâ€"water mixture over Cu/ZnOâ€"ZrO2â€"Al2O3 catalyst. Applied Catalysis A: General, 2013, 458, 196-200.	4.3	7
307	Synthesis and characterization of a renewable polyester containing oxabicyclic dicarboxylate derived from furfural. Green Chemistry, 2013, 15, 1318.	9.0	26
308	Multiâ€scale modeling for sustainable chemical production. Biotechnology Journal, 2013, 8, 973-984.	3.5	14
309	Sulfonated surfactants obtained from furfural. Green Chemistry, 2013, 15, 1558.	9.0	24
310	Enhanced yields of furfural and other products by simultaneous solvent extraction during thermochemical treatment of cellulosic biomass. RSC Advances, 2013, 3, 9809.	3.6	53
314	Design of Heterogeneous Catalysts for Fuels and Chemicals Processing: An Overview. ACS Symposium Series, 2013, , 3-68.	0.5	36
315	Biorefinery Applications of Corynebacterium glutamicum. Microbiology Monographs, 2013, , 149-172.	0.6	18
316	Upgrading of Levulinic Acid with Dimethylcarbonate as Solvent/Reagent. ACS Sustainable Chemistry and Engineering, 2013, 1, 989-994.	6.7	43
317	Multiphase Catalytic Hydrogenolysis/Hydrodeoxygenation Processes for Chemicals from Renewable Feedstocks: Kinetics, Mechanism, and Reaction Engineering. Industrial & Engineering Chemistry Research, 2013, 52, 15226-15243.	3.7	35
318	Efficient Cobalt-Catalyzed Oxidative Conversion of Lignin Models to Benzoquinones. Organic Letters, 2013, 15, 2730-2733.	4.6	123
319	Hydrogenolysis of polyalcohols in the presence of metal phosphide catalysts. Applied Catalysis A: General, 2013, 459, 26-33.	4.3	38
320	New copolyesters derived from terephthalic and 2,5-furandicarboxylic acids: A step forward in the development of biobased polyesters. Polymer, 2013, 54, 513-519.	3.8	136

#	Article	IF	Citations
321	Chemical transformations of glucose to value added products using Cu-based catalytic systems. Physical Chemistry Chemical Physics, 2013, 15, 12165.	2.8	49
322	Highly efficient transformation of levulinic acid into pyrrolidinones by iridium catalysed transfer hydrogenation. Chemical Communications, 2013, 49, 5408.	4.1	122
323	Eco-solvents â€“ cluster-formation, surfactantless microemulsions and facilitated hydrotropy. Physical Chemistry Chemical Physics, 2013, 15, 10971.	2.8	36
324	A comparative study on direct production of ethyl levulinate from glucose in ethanol media catalysed by different acid catalysts. Chemical Papers, 2013, 67, .	2.2	28
325	The Role of Heterogeneous Catalysis in the Biorefinery of the Future. , 2013, , 557-576.		7
326	Ionic liquids as a tool for lignocellulosic biomass fractionation. Sustainable Chemical Processes, 2013, 1, .	2.3	192
327	Selective Metalâ€Catalyzed Transfer of H₂ and CO from Polyols to Alkenes. ChemSusChem, 2013, 6, 426-429.	6.8	44
328	Feedstocks, logistics and pre-treatment processes for sustainable lignocellulosic biorefineries: A comprehensive review. Renewable and Sustainable Energy Reviews, 2013, 25, 205-219.	16.4	179
329	Conversion of furfural into cyclopentanone over Niâ€“Cu bimetallic catalysts. Green Chemistry, 2013, 15, 1932.	9.0	294
330	Selective oxidation of alcohols and aldehydes over supported metal nanoparticles. Green Chemistry, 2013, 15, 17-45.	9.0	659
331	Glycerol-, pentaerythritol- and trimethylolpropane-based polyurethanes and their cellulose carbonate composites prepared via the non-isocyanate route with catalytic carbon dioxide fixation. Green Chemistry, 2013, 15, 934.	9.0	168
332	Chemocatalytic Conversion of Ethanol into Butadiene and Other Bulk Chemicals. ChemSusChem, 2013, 6, 1595-1614.	6.8	371
333	Tunable Pt nanocatalysts for the aerobic selox of cinnamyl alcohol. Nanoscale, 2013, 5, 5412.	5.6	26
334	Catalytic conversion of biomass-derived levulinic acid into Î³-valerolactone using iridium nanoparticles supported on carbon nanotubes. Chinese Journal of Catalysis, 2013, 34, 993-1001.	14.0	71
335	Colorimetric Behavior and Seasonal Characteristic of Xylem Sap Obtained by Mechanical Compression from Silver Birch (Betula pendula). ACS Sustainable Chemistry and Engineering, 2013, 1, 1075-1082.	6.7	9
336	Aromatic products of radiation-thermal degradation of lignin and chitin. High Energy Chemistry, 2013, 47, 35-40.	0.9	11
337	Rigid Biobased Building Blocks. Journal of Renewable Materials, 2013, 1, 61-72.	2.2	45
338	The improvement of stability, activity, and substrate promiscuity of glycerol dehydrogenase substituted by divalent metal ions. Biotechnology and Bioprocess Engineering, 2013, 18, 796-800.	2.6	14

#	Article	IF	Citations
339	â€œSweet-in-Greenâ€•Systems Based on Sugars and Ionic Liquids: New Solubility Data and Thermodynamic Analysis. Industrial & Engineering Chemistry Research, 2013, 52, 18482-18491.	3.7	25
340	Automated Generation and Optimal Selection of Biofuel-Gasoline Blends and Their Synthesis Routes. Energy & Fuels, 2013, 27, 3585-3594.	5.1	24
341	Diesel and Alkane Fuels From Biomass by Organocatalysis and Metalâ€“Acid Tandem Catalysis. ChemSusChem, 2013, 6, 2236-2239.	6.8	89
342	Yttrium-Modified Ceria As a Highly Durable Catalyst for the Selective Conversion of Ethanol to Propene and Ethene. ACS Catalysis, 2013, 3, 14-17.	11.2	58
343	Ionicâ€Liquidâ€Catalyzed Efficient Transformation of Î³â€Valerolactone to Methyl 3â€Pentenoate under Mild Conditions. ChemSusChem, 2013, 6, 600-603.	6.8	22
344	Hydrolysis and fermentation for cellulosic ethanol production. Wiley Interdisciplinary Reviews: Energy and Environment, 2013, 2, 633-654.	4.1	28
345	Microwave heating for rapid conversion of sugars and polysaccharides to 5-chloromethyl furfural. Green Chemistry, 2013, 15, 72-75.	9.0	50
347	Alkaline-Earth Metal Complexes in Homogeneous Polymerization Catalysis. Topics in Organometallic Chemistry, 2013, , 141-189.	0.7	30
348	Plastics additives and green chemistry. Pure and Applied Chemistry, 2013, 85, 1611-1624.	1.9	42
349	Properties of Thermosets Derived from Chemically Modified Triglycerides and Bio-Based Comonomers. Applied Sciences (Switzerland), 2013, 3, 684-693.	2.5	15
350	Short-time ultrasonication treatment in enzymatic hydrolysis of biomass. Holzforschung, 2013, 67, 891-897.	1.9	6
351	Heterogeneous Catalytic Hydrogenation of Biobased Levulinic and Succinic Acids in Aqueous Solutions. ChemSusChem, 2013, 6, 2388-2395.	6.8	114
352	Mechanistic Insight into the Conversion of Tetrose Sugars to Novel Î±â€Hydroxy Acid Platform Molecules. ChemCatChem, 2013, 5, 569-575.	3.7	91
353	Gold Catalysis Opens Up a New Route for the Synthesis of Benzimidazoylquinoxaline Derivatives from Biomassâ€Derived Products (Glycerol). ChemCatChem, 2013, 5, 3866-3874.	3.7	28
354	Evolution of pyruvate kinase-deficient <i>Escherichia coli</i> mutants enables glycerol-based cell growth and succinate production. Journal of Applied Microbiology, 2013, 115, 1368-1378.	3.1	11
355	Recalcitrance of Nature: Chemocatalysis for the Production of Biomassâ€Based Building Blocks. ChemSusChem, 2013, 6, 1559-1563.	6.8	9
356	A Tailored Microenvironment for Catalytic Biomass Conversion in Inorganicâ€“Organic Nanoreactors. Angewandte Chemie, 2013, 125, 10539-10541.	2.0	24
358	Biochemical Conversion of Biomass. , 2013, , 351-418.		0

#	Article	IF	Citations
360	Transformation of Sorbitol to Biofuels by Heterogeneous Catalysis: Chemical and Industrial Considerations. Oil and Gas Science and Technology, 2013, 68, 841-860.	1.4	41
361	Trends in Biobased Chemistry. Plastics Engineering, 2013, 69, 44-48.	0.0	3
362	Sustainable Production of Bio-Based Chemicals by Extremophiles. Current Biotechnology, 2013, 2, 360-379.	0.4	26
364	Conversion of Xylan and Xylose into Furfural in Biorenewable Deep Eutectic Solvent with Trivalent Metal Chloride Added. BioResources, 2013, 8, .	1.0	43
365	Creation of Novel Green Surfactants Containing Carbonate Linkages. , 0, , .		4
368	Catalytic Decomposition of Glucose to Levulinic Acid by Synergy of Organic Lewis Acid and BrÃ¸nsted Acid in Water. BioResources, 2014, 10, .	1.0	7
369	Filamentous fungi and media for cellulase production in solid state cultures. Brazilian Journal of Microbiology, 2014, 45, 279-286.	2.0	19
370	Organocatalysis: Key Trends in Green Synthetic Chemistry, Challenges, Scope towards Heterogenization, and Importance from Research and Industrial Point of View. Journal of Catalysts, 2014, 2014, 1-35.	0.5	61
371	Kinetics of Formic Acid-catalyzed Cellulose Hydrolysis. BioResources, 2014, 9, .	1.0	18
372	Catalytic Synthesis of Diphenolic Acid from Levulinic Acid over Bronsted Acidic Ionic Liquids. BioResources, 2014, 9, .	1.0	8
373	Patrimoines productifs collectifs versus Âexploration/exploitation. Revue Economique, 2014, Vol. 65, 957-987.	0.3	14
374	Hydrolysis in Near- and SupercriticalÂWater for Biomass Conversion andÂMaterial Recycling. , 2014, , 139-156.		8
378	Food Waste Valorisation for High Value Chemicals and Energy Production. ACS Symposium Series, 2014, , 187-202.	0.5	1
379	Chemie erneuerbarer kohlenstoffbasierter Rohstoffe zur Produktion von Chemikalien undÂKraftstoffen. Chemie-Ingenieur-Technik, 2014, 86, 2135-2149.	0.8	7
380	Perspectives for the Brazilian residual biomass in renewable chemistry. Pure and Applied Chemistry, 2014, 86, 833-842.	1.9	5
381	Biorefinery Roadmaps. , 2014, , 59-71.		3
382	Innovation dynamics in the biobased industry. Chemical and Biological Technologies in Agriculture, 2014, 1, .	4.6	5
383	Lignocellulose-Based Chemical Products. , 2014, , 277-313.		44

#	Article	IF	Citations
385	Developments in cereal-based biorefineries. , 2014, , 303-334.		7
387	Role of Re Species and Acid Cocatalyst on Ir-ReO_x/SiO₂in the C-O Hydrogenolysis of Biomass-Derived Substrates. Chemical Record, 2014, 14, 1041-1054.	5.8	72
388	Reviews of Science for Science Librarians: Microbes that Make Biofuels and Work within Fuel Cells. Science and Technology Libraries, 2014, 33, 71-88.	1.8	1
389	Tailoring the Product Distribution with Batch and Continuous Process Options in Catalytic Hydrogenation of Furfural. Organic Process Research and Development, 2014, 18, 1434-1442.	2.7	61
390	Ring-Opening and Oxidation Pathways of Furanic Oxygenates on Oxygen-Precovered Pd(111). Journal of Physical Chemistry C, 2014, 118, 27933-27943.	3.1	20
391	Characterizations of furfuryl alcohol oligomer/polymerization catalyzed by homogeneous and heterogeneous acid catalysts. Korean Journal of Chemical Engineering, 2014, 31, 2124-2129.	2.7	28
392	Polyurethane foams based on crude glycerol-derived biopolyols: One-pot preparation of biopolyols with branched fatty acid ester chains and its effects on foam formation and properties. Polymer, 2014, 55, 6529-6538.	3.8	50
393	Catalytic oxidation of glycerol to tartronic acid over Au/HY catalyst under mild conditions. Chinese Journal of Catalysis, 2014, 35, 1653-1660.	14.0	45
394	A fibrous bed bioreactor to improve the productivity of succinic acid by <i>Actinobacillus succinogenes</i>. Journal of Chemical Technology and Biotechnology, 2014, 89, 1760-1766.	3.2	43
395	Towards the Efficient Development of Homogeneous Catalytic Transformation to Î³â€Valerolactone from Biomassâ€Derived Platform Chemicals. ChemCatChem, 2014, 6, 3360-3365.	3.7	40
396	Implications of productivity and nutrient requirements on greenhouse gas balance of annual and perennial bioenergy crops. GCB Bioenergy, 2014, 6, 425-438.	5.6	56
397	Greener pathways for energy-intensive commodity chemicals: opportunities and challenges. Current Opinion in Chemical Engineering, 2014, 6, 90-98.	7.8	9
398	Value-Added Chemicals from Glycerol. ACS Symposium Series, 2014, , 43-80.	0.5	9
399	Carbon Dioxide Solvent Applications in a Biorefinery. ACS Symposium Series, 2014, , 9-35.	0.5	4
400	Combined Experimental and Computational Studies on the Physical and Chemical Properties of the Renewable Amide, 3â€Acetamidoâ€5â€acetylfuran. ChemPhysChem, 2014, 15, 4087-4094.	2.1	28
401	Kinetics of furfural destruction in a formic acid medium. RSC Advances, 2014, 4, 60243-60248.	3.6	32
402	A New Generation of Furanic Copolyesters with Enhanced Degradability: Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 107 Td (2, Physics, 2014, 215, 2175-2184.	2.2	92
404	Mixed Food Waste as Renewable Feedstock in Succinic Acid Fermentation. Applied Biochemistry and Biotechnology, 2014, 174, 1822-1833.	2.9	73

#	Article	IF	Citations
405	Lignin-based Carbon Fibers. Materials and Energy, 2014, , 25-47.	0.1	2
406	Development of a Markerless Knockout Method for Actinobacillus succinogenes. Applied and Environmental Microbiology, 2014, 80, 3053-3061.	3.1	20
407	Valorization of Carbon Dioxide to Organic Products with Organocatalysts. Green Chemistry and Sustainable Technology, 2014, , 3-37.	0.7	2
408	Selective Hydrogenolysis of Câ€“O Bonds Using the Interaction of the Catalyst Surface and OH Groups. Topics in Current Chemistry, 2014, 353, 127-162.	4.0	29
409	Developments in bioethanol fuel-focused biorefineries. , 2014, , 259-302.		9
410	Exergetical Evaluation of Biobased Synthesis Pathways. Polymers, 2014, 6, 327-345.	4.5	6
411	Sulfonic acid heterogeneous catalysts for dehydration of C6-monosaccharides to 5-hydroxymethylfurfural in dimethyl sulfoxide. Chinese Journal of Catalysis, 2014, 35, 644-655.	14.0	34
412	Bio-based poly(ethylene terephthalate) copolyesters made from cyclic monomers derived from tartaric acid. Polymer, 2014, 55, 2294-2304.	3.8	33
413	Life cycle assessment of Brassica carinata biomass conversion toÂbioenergy and platform chemicals. Journal of Cleaner Production, 2014, 66, 174-187.	9.3	52
414	Pt-Re synergy in aqueous-phase reforming of glycerol and the waterâ€“gas shift reaction. Journal of Catalysis, 2014, 311, 88-101.	6.2	103
415	Selective dehydration of glucose to 5-hydroxymethylfurfural on acidic mesoporous tantalum phosphate. Applied Catalysis B: Environmental, 2014, 144, 22-28.	20.2	107
416	Succinylation of Nonâ€ionic Surfactants: Physicochemical Characterization, Functional Properties, Biodegradability and Mathematical Modeling of the Polarity Tuning. Journal of Surfactants and Detergents, 2014, 17, 591-602.	2.1	4
417	Bio(chemo)technological strategies for biomass conversion into bioethanol and key carboxylic acids. Green Chemistry, 2014, 16, 2386.	9.0	62
418	Transformation and Utilization of Carbon Dioxide. Green Chemistry and Sustainable Technology, 2014, , .	0.7	59
419	Esterification of levulinic acid with ethanol over sulfated Si-doped ZrO2 solid acid catalyst: Study of the structureâ€“activity relationships. Applied Catalysis A: General, 2014, 476, 186-196.	4.3	104
420	Effects of residual lignin and heteropolysaccharides on the bioconversion of softwood lignocellulose nanofibrils obtained by SO2â€“ethanolâ€“water fractionation. Bioresource Technology, 2014, 161, 55-62.	9.6	30
421	Biomass-to-bioenergy and biofuel supply chain optimization: Overview, key issues and challenges. Computers and Chemical Engineering, 2014, 66, 36-56.	3.8	563
422	Macromolecular engineering via ring-opening polymerization (3): trimethylene carbonate block copolymers derived from glycerol. Polymer Chemistry, 2014, 5, 1229-1240.	3.9	20

#	Article	IF	Citations
423	Sulfonated Graphene Oxide as Effective Catalyst for Conversion of 5â€(Hydroxymethyl)â€2â€furfural into Biofuels. ChemSusChem, 2014, 7, 804-812.	6.8	90
424	The peculiarities of succinic acid production from rapeseed oil by Yarrowia lipolytica yeast. Applied Microbiology and Biotechnology, 2014, 98, 4149-4157.	3.6	31
425	Biobased furandicarboxylic acids (FDCAs): effects of isomeric substitution on polyester synthesis and properties. Green Chemistry, 2014, 16, 1957-1966.	9.0	153
426	New bifunctional catalytic systems for sorbitol transformation into biofuels. Applied Catalysis B: Environmental, 2014, 148-149, 499-508.	20.2	42
427	Formic acid decomposition on Au catalysts: DFT, microkinetic modeling, and reaction kinetics experiments. AIChE Journal, 2014, 60, 1303-1319.	3.6	87
428	The hydrolytic hydrogenation of cellulose to sorbitol over M (Ru, Ir, Pd, Rh)-BEA-zeolite catalysts. Catalysis Today, 2014, 223, 122-128.	4.4	80
429	Understanding the effects of lignosulfonate on enzymatic saccharification of pure cellulose. Cellulose, 2014, 21, 1351-1359.	4.9	60
430	Investigation of biomass depolymerization by surface techniques. Surface and Interface Analysis, 2014, 46, 832-836.	1.8	4
431	Selective hydrogenation of d-glucose to d-sorbitol over HY zeolite supported ruthenium nanoparticles catalysts. Catalysis Today, 2014, 232, 99-107.	4.4	72
432	Enhanced production of 3-hydroxypropionic acid from glycerol by modulation of glycerol metabolism in recombinant Escherichia coli. Bioresource Technology, 2014, 156, 170-175.	9.6	80
433	Biofuels in Brazil. , 2014, , .		14
434	Advances in Methods to Improve the Sugarcane Crop as â€œEnergy Caneâ€for Biorefinery: An Appraisal. , 2014, , 125-150.		0
435	Novel membrane-based biotechnological alternative process for succinic acid production and chemical synthesis of bio-based poly (butylene succinate). Bioresource Technology, 2014, 156, 6-13.	9.6	50
436	Hydrodeoxygenation of the Angelica Lactone Dimer, a Celluloseâ€Based Feedstock: Simple, Highâ€Yield Synthesis of Branched C₇â€"C₁₀ Gasolineâ€like Hydrocarbons. Angewandte Chemie - International Edition, 2014, 53, 1854-1857.	13.8	179
437	Structure, topology, gas adsorption and photoluminescence of multifunctional porous RE3+-furan-2,5-dicarboxylate metal organic frameworks. Microporous and Mesoporous Materials, 2014, 188, 172-181.	4.4	26
438	Reaction network analysis and continuous production of isosorbide tert-butyl ethers. Catalysis Today, 2014, 234, 113-118.	4.4	5
439	Bridging the Chemical and Biological Catalysis Gap: Challenges and Outlooks for Producing Sustainable Chemicals. ACS Catalysis, 2014, 4, 2060-2069.	11.2	160
440	Selective Catalysis for Cellulose Conversion to Lactic Acid and Other Î±-Hydroxy Acids. Topics in Current Chemistry, 2014, 353, 85-125.	4.0	54

#	Article	IF	Citations
441	Top Chemical Opportunities from Carbohydrate Biomass: A Chemistâ€™s View of the Biorefinery. Topics in Current Chemistry, 2014, 353, 1-40.	4.0	125
442	The Alphaâ€“Bet(a) of Glucose Pyrolysis: Computational and Experimental Investigations of 5-Hydroxymethylfurfural and Levoglucosan Formation Reveal Implications for Cellulose Pyrolysis. ACS Sustainable Chemistry and Engineering, 2014, 2, 1461-1473.	6.7	113
443	Willow biomass as feedstock for an integrated multi-product biorefinery. Industrial Crops and Products, 2014, 58, 230-237.	5.2	60
444	Impacts of pre-treatment technologies and co-products on greenhouse gas emissions and energy use of lignocellulosic ethanol production. Journal of Cleaner Production, 2014, 78, 104-111.	9.3	33
445	Identification and analysis of synthesis routes in complex catalytic reaction networks for biomass upgrading. Applied Catalysis B: Environmental, 2014, 145, 149-160.	20.2	16
446	Chain Mobility, Thermal, and Mechanical Properties of Poly(ethylene furanoate) Compared to Poly(ethylene terephthalate). Macromolecules, 2014, 47, 1383-1391.	4.8	473
447	Purification of Biomassâ€Derived 5â€Hydroxymethylfurfural and Its Catalytic Conversion to 2,5â€Furandicarboxylic Acid. ChemSusChem, 2014, 7, 2131-2135.	6.8	101
448	Catalytic Conversion of Nonfood Woody Biomass Solids to Organic Liquids. Accounts of Chemical Research, 2014, 47, 1503-1512.	15.6	307
449	Single-Pot Formation of THFAL via Catalytic Hydrogenation of FFR Over Pd/MFI Catalyst. ACS Sustainable Chemistry and Engineering, 2014, 2, 272-281.	6.7	91
450	Catalyst-free transformation of levulinic acid into pyrrolidinones with formic acid. Green Chemistry, 2014, 16, 1093-1096.	9.0	75
451	Heterogeneous photocatalytic nanomaterials: prospects and challenges in selective transformations of biomass-derived compounds. Chemical Society Reviews, 2014, 43, 765-778.	38.1	539
452	Mechanistic and kinetic aspects of pentose dehydration towards furfural in aqueous media employing homogeneous catalysis. Green Chemistry, 2014, 16, 39-54.	9.0	191
453	In silico design of bio-based commodity chemicals: application to itaconic acid based solvents. Green Chemistry, 2014, 16, 146-160.	9.0	35
454	Conversion of Biomass into Chemicals over Metal Catalysts. Chemical Reviews, 2014, 114, 1827-1870.	47.7	1,504
455	A strategy for the simultaneous catalytic conversion of hemicellulose and cellulose from lignocellulosic biomass to liquid transportation fuels. Green Chemistry, 2014, 16, 653-661.	9.0	124
456	Promises in direct conversion of cellulose and lignocellulosic biomass to chemicals and fuels: Combined solventâ€“nanocatalysis approach for biorefinary. Biomass and Bioenergy, 2014, 62, 182-197.	5.7	73
457	Bifunctional SO₄/ZrO₂catalysts for 5-hydroxymethylfufural (5-HMF) production from glucose. Catalysis Science and Technology, 2014, 4, 333-342.	4.1	153
458	Dealuminated Beta zeolite as effective bifunctional catalyst for direct transformation of glucose to 5-hydroxymethylfurfural. Applied Catalysis A: General, 2014, 470, 318-326.	4.3	135

#	Article	IF	Citations
459	Catalytic conversion of starch into valuable furan derivatives using supported metal nanoparticles on mesoporous aluminosilicate materials. Catalysis Science and Technology, 2014, 4, 428-434.	4.1	25
460	Lignocellulosic Biorefineries: Concepts and Possibilities. , 2014, , 255-265.		3
461	One-pot synthesis of furfural derivatives from pentoses using solid acid and base catalysts. Catalysis Science and Technology, 2014, 4, 971-978.	4.1	37
462	Hydroxymethylfurfural production from bioresources: past, present and future. Green Chemistry, 2014, 16, 2015.	9.0	425
463	The pyruvate dehydrogenase complex of Corynebacterium glutamicum: An attractive target for metabolic engineering. Journal of Biotechnology, 2014, 192, 339-345.	3.8	44
464	The quest for sustainable polyesters â€“ insights into the future. Polymer Chemistry, 2014, 5, 3119-3141.	3.9	438
465	Valorization of industrial waste and by-product streams via fermentation for the production of chemicals and biopolymers. Chemical Society Reviews, 2014, 43, 2587.	38.1	437
466	Fuels and plastics from lignocellulosic biomass via the furan pathway; a technical analysis. RSC Advances, 2014, 4, 3536-3549.	3.6	61
467	Strategic change in the forest industry towards the biorefining business. Technological Forecasting and Social Change, 2014, 81, 259-271.	11.6	74
468	Plants and BioEnergy. , 2014, , .		7
469	Conversion of biomass platform molecules into fuel additives and liquid hydrocarbon fuels. Green Chemistry, 2014, 16, 516.	9.0	1,157
470	Green and sustainable manufacture of chemicals from biomass: state of the art. Green Chemistry, 2014, 16, 950-963.	9.0	1,323
471	Formation of degradation compounds from lignocellulosic biomass in the biorefinery: sugar reaction mechanisms. Carbohydrate Research, 2014, 385, 45-57.	2.3	288
472	Organocatalysis in biorefining for biomass conversion and upgrading. Green Chemistry, 2014, 16, 964-981.	9.0	92
473	Methanesulfonic acid-catalyzed conversion of glucose and xylose mixtures to levulinic acid and furfural. Industrial Crops and Products, 2014, 52, 46-57.	5.2	88
474	Supported Rh-phosphine complex catalysts for continuous gas-phase decarbonylation of aldehydes. Dalton Transactions, 2014, 43, 17230-17235.	3.3	10
475	Catalytic transfer hydrogenation of levulinate esters to Î³-valerolactone over supported ruthenium hydroxide catalysts. RSC Advances, 2014, 4, 45848-45855.	3.6	55
476	Homogeneous, Heterogeneous and Nanocatalysis. RSC Green Chemistry, 2014, , 1-39.	0.1	12

#	Article	IF	Citations
477	Trends in Formic Acid Decomposition on Model Transition Metal Surfaces: A Density Functional Theory study. ACS Catalysis, 2014, 4, 4434-4445.	11.2	190
478	Direct Hydrogenation of Biomassâ€Derived Butyric Acid to <i>n</i>â€Butanol over a Rutheniumâ€"Tin Bimetallic Catalyst. ChemSusChem, 2014, 7, 2998-3001.	6.8	46
479	Tunable and Selective Conversion of 5â€HMF to 2,5â€Furandimethanol and 2,5â€Dimethylfuran over Copperâ€Doped Porous Metal Oxides. ChemSusChem, 2014, 7, 2266-2275.	6.8	163
480	Catalytic chemical processes for biomass conversion: Prospects for future biorefineries. Pure and Applied Chemistry, 2014, 86, 843-857.	1.9	11
481	Microbial enzyme systems for lignin degradation and their transcriptional regulation. Frontiers in Biology, 2014, 9, 448-471.	0.7	48
482	Life-Cycle Fossil Energy Consumption and Greenhouse Gas Emissions of Bioderived Chemicals and Their Conventional Counterparts. Environmental Science & Technology, 2014, 48, 14624-14631.	10.0	93
483	Polymerization of Nonfood Biomass-Derived Monomers to Sustainable Polymers. Topics in Current Chemistry, 2014, 353, 185-227.	4.0	10
484	The production of succinic acid by yeast Yarrowia lipolytica through a two-step process. Applied Microbiology and Biotechnology, 2014, 98, 7959-7969.	3.6	29
485	Green building blocks for bioâ€based plastics. Biofuels, Bioproducts and Biorefining, 2014, 8, 306-324.	3.7	223
486	Rapid Conversion of Sorbitol to Isosorbide in Hydrophobic Ionic Liquids under Microwave Irradiation. ChemSusChem, 2014, 7, 3257-3259.	6.8	23
487	Catalytic activity and stability of hydrophobic Mgâ€"Al hydrotalcites in the continuous aqueous-phase isomerization of glucose into fructose. Catalysis Science and Technology, 2014, 4, 4322-4329.	4.1	80
488	Bio-based PBT copolyesters derived fromd-glucose: influence of composition on properties. Polymer Chemistry, 2014, 5, 3190-3202.	3.9	54
489	Numerical analysis of anion-exchange membrane direct glycerol fuel cells under steady state and dynamic operations. International Journal of Hydrogen Energy, 2014, 39, 19767-19779.	7.1	34
490	Hardening process and properties of an epoxy resin with bio-based hardener derived from furfural. RSC Advances, 2014, 4, 55723-55731.	3.6	10
491	Direct reductive amination of 5-hydroxymethylfurfural with primary/secondary amines via Ru-complex catalyzed hydrogenation. RSC Advances, 2014, 4, 59083-59087.	3.6	53
492	Biomass derived furfural-based facile synthesis of protected (2<i>S</i>)-phenyl-3-piperidone, a common intermediate for many drugs. Chemical Communications, 2014, 50, 8324-8327.	4.1	17
493	(Co)Polymerization of vinyl levulinate by cobalt-mediated radical polymerization and functionalization by ketoxime click chemistry. Polymer Chemistry, 2014, 5, 2973-2979.	3.9	35
494	One-pot transformation of polysaccharides via multi-catalytic processes. Catalysis Science and Technology, 2014, 4, 4138-4168.	4.1	68

#	Article	IF	Citations
495	Benzyl Î²-malolactonate polymers: a long story with recent advances. Polymer Chemistry, 2014, 5, 4168-4194.	3.9	31
496	Cellulose and hemicellulose valorisation: an integrated challenge of catalysis and reaction engineering. Energy and Environmental Science, 2014, 7, 2803.	30.8	255
497	A fusion enzyme consisting of bacterial expansin and endoglucanase for the degradation of highly crystalline cellulose. RSC Advances, 2014, 4, 43815-43820.	3.6	18
498	Carbon Materials as Catalyst Supports and Catalysts in the Transformation of Biomass to Fuels and Chemicals. ACS Catalysis, 2014, 4, 3393-3410.	11.2	523
499	Valorization of Biorefinery Side-Stream Products: Combination of Humins with Polyfurfuryl Alcohol for Composite Elaboration. ACS Sustainable Chemistry and Engineering, 2014, 2, 2182-2190.	6.7	85
500	Î±,Ï‰-Di(glycerol carbonate) telechelic polyesters and polyolefins as precursors to polyhydroxyurethanes: an isocyanate-free approach. Green Chemistry, 2014, 16, 1947-1956.	9.0	93
501	Catalytic aerobic oxidation of renewable furfural to maleic anhydride and furanone derivatives with their mechanistic studies. Green Chemistry, 2014, 16, 4351-4358.	9.0	95
502	Insight into Biomass as a Renewable Carbon Source for the Production of Succinic Acid and the Factors Affecting the Metabolic Flux toward Higher Succinate Yield. Industrial & Engineering Chemistry Research, 2014, 53, 16123-16134.	3.7	48
503	Tin-catalyzed conversion of biomass-derived triose sugar and formaldehyde to Î±-hydroxy-Î³-butyrolactone. Chemical Communications, 2014, 50, 4600.	4.1	24
504	Zirconium phosphate combined with Ru/C as a highly efficient catalyst for the direct transformation of cellulose to C₆ alditols. Green Chemistry, 2014, 16, 3305-3312.	9.0	99
505	Zirconiumâ€"Beta zeolite as a robust catalyst for the transformation of levulinic acid to Î³-valerolactone via Meerweinâ€"Ponndorfâ€"Verley reduction. RSC Advances, 2014, 4, 13481-13489.	3.6	167
506	Conformal sulfated zirconia monolayer catalysts for the one-pot synthesis of ethyl levulinate from glucose. Chemical Communications, 2014, 50, 11742-11745.	4.1	88
507	Integrated biorefinery model based on production of furans using open-ended high yield processes. Green Chemistry, 2014, 16, 2480-2489.	9.0	63
508	Bio-based chemicals from biorefining: carbohydrate conversion and utilisation. , 2014, , 624-658.		14
509	Ionic Supramolecular Networks Fully Based on Chemicals Coming from Renewable Sources. Macromolecular Rapid Communications, 2014, 35, 460-465.	3.9	33
510	Catalysis via Solâ€"Gel Acid Silicas: An Important Chemical Technology for 2nd Generation Biorefineries. ChemCatChem, 2014, 6, 3053-3059.	3.7	11
511	Carbon Flux Analysis by ¹³ C Nuclear Magnetic Resonance To Determine the Effect of CO ₂ on Anaerobic Succinate Production by Corynebacterium glutamicum. Applied and Environmental Microbiology, 2014, 80, 3015-3024.	3.1	42
512	Oxygen sorption and transport in amorphous poly(ethylene furanoate). Polymer, 2014, 55, 4748-4756.	3.8	242

#	Article	IF	Citations
513	Base free, one-pot synthesis of lactic acid from glycerol using a bifunctional Pt/Sn-MFI catalyst. Green Chemistry, 2014, 16, 3428-3433.	9.0	100
514	Fully Biobased Unsaturated Aliphatic Polyesters from Renewable Resources: Enzymatic Synthesis, Characterization, and Properties. Macromolecular Chemistry and Physics, 2014, 215, 2185-2197.	2.2	58
515	Catalytic materials for the hydrogenolysis of glycerol to 1,3-propanediol. Journal of Materials Chemistry A, 2014, 2, 6688-6702.	10.3	166
516	Catalytic Conversion of Biomass by Natural Gas for Oil Quality Upgrading. Industrial & Engineering Chemistry Research, 2014, 53, 15862-15870.	3.7	34
517	Coupling metal halides with a co-solvent to produce furfural and 5-HMF at high yields directly from lignocellulosic biomass as an integrated biofuels strategy. Green Chemistry, 2014, 16, 3819-3829.	9.0	164
518	Solid acids with SO₃H groups and tunable surface properties: versatile catalysts for biomass conversion. Journal of Materials Chemistry A, 2014, 2, 11813-11824.	10.3	98
519	Mesoporous Zrâ€"SBA-16 catalysts for glycerol valorization processes: towards biorenewable formulations. Catalysis Science and Technology, 2014, 4, 2287-2292.	4.1	23
520	A novel route to synthesis of glycerol dimethyl ether from epichlorohydrinÂwith high selectivity. Biomass and Bioenergy, 2014, 70, 400-406.	5.7	4
521	Thermochemistry and Kinetics of Angelica and Cognate Lactones. Journal of Physical Chemistry A, 2014, 118, 4172-4183.	2.5	11
522	Catalytic Formation of Acrylate from Carbon Dioxide and Ethene. Chemistry - A European Journal, 2014, 20, 12037-12040.	3.3	91
523	Kinetic Study on the Dilute Acidic Dehydration of Pentoses toward Furfural in Seawater. Industrial & Engineering Chemistry Research, 2014, 53, 5455-5463.	3.7	20
524	Recent advances in the production of polyols from lignocellulosic biomass and biomass-derived compounds. RSC Advances, 2014, 4, 49501-49520.	3.6	84
525	Selective glycerol transformations to high value-added products catalysed by aluminosilicate-supported iron oxide nanoparticles. Catalysis Science and Technology, 2014, 4, 4242-4249.	4.1	50
526	Ionic liquid pretreatment to increase succinic acid production from lignocellulosic biomass. Bioresource Technology, 2014, 172, 283-289.	9.6	37
527	Insights into the Primary Decomposition Mechanism of Cellobiose under Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 14607-14616.	3.7	22
528	Upgrading of Biobased Lactones with Dialkylcarbonates. ACS Sustainable Chemistry and Engineering, 2014, 2, 2131-2141.	6.7	27
529	The battle for the â€œgreenâ€•polymer. Different approaches for biopolymer synthesis: bioadvantaged vs. bioreplacement. Organic and Biomolecular Chemistry, 2014, 12, 2834-2849.	2.8	143
530	Subcritical water mediated hydrolysis of cider spent yeast: Kinetics of HMF synthesis from a waste microbial biomass. Industrial Crops and Products, 2014, 61, 137-144.	5.2	5

#	Article	IF	Citations
531	Collective Descriptors for the Adsorption of Sugar Alcohols on Pt and Pd(111). Journal of Physical Chemistry C, 2014, 118, 17531-17537.	3.1	23
532	Biomass and Bioenergy. , 2014, , .		19
533	Enzymatic Synthesis of Biobased Polyesters Using 2,5-Bis(hydroxymethyl)furan as the Building Block. Biomacromolecules, 2014, 15, 2482-2493.	5.4	154
534	Epoxidized rosin acids as co-precursors for epoxy resins. Designed Monomers and Polymers, 2014, 17, 301-310.	1.6	32
535	Production, properties and catalytic hydrogenation of furfural to fuel additives and value-added chemicals. Renewable and Sustainable Energy Reviews, 2014, 38, 663-676.	16.4	584
536	Experimental and Modeling Studies on the Solubility of <scp>d</scp>-Arabinose, <scp>d</scp>-Fructose, <scp>d</scp>-Glucose, <scp>d</scp>-Mannose, Sucrose and <scp>d</scp>-Xylose in Methanol and Methanolâ€"Water Mixtures. Industrial & Engineering Chemistry Research, 2014, 53, 8285-8290.	3.7	30
537	Selective, one-pot catalytic conversion of levulinic acid to pentanoic acid over Ru/H-ZSM5. Journal of Catalysis, 2014, 320, 33-41.	6.2	103
538	Will Zeoliteâ€Based Catalysis be as Relevant in Future Biorefineries as in Crude Oil Refineries?. Angewandte Chemie - International Edition, 2014, 53, 8621-8626.	13.8	132
539	Succinic acid production with Actinobacillus succinogenes: rate and yield analysis of chemostat and biofilm cultures. Microbial Cell Factories, 2014, 13, 111.	4.0	52
540	Green chemistry, sustainable agriculture and processing systems: a Brazilian overview. Chemical and Biological Technologies in Agriculture, 2014, 1, .	4.6	31
541	Bioprocesses for biofuels: an overview of the Brazilian case. Chemical and Biological Technologies in Agriculture, 2014, 1, .	4.6	8
542	The glycerol biorefinery: a purpose for Brazilian biodiesel production. Chemical and Biological Technologies in Agriculture, 2014, 1, .	4.6	22
543	A renewable chemistry linked to the Brazilian biofuel production. Chemical and Biological Technologies in Agriculture, 2014, 1, .	4.6	8
544	Unraveling the Role of Low Coordination Sites in a Cu Metal Nanoparticle: A Step toward the Selective Synthesis of Second Generation Biofuels. ACS Catalysis, 2014, 4, 2818-2826.	11.2	85
545	Conversion of wheat straw to furfural and levulinic acid in a concentrated aqueous solution of betaÃ¯ne hydrochloride. RSC Advances, 2014, 4, 28836.	3.6	20
546	Al-SBA-15 catalysed cross-esterification and acetalisation of biomass-derived platform chemicals. Green Chemistry, 2014, 16, 4985-4993.	9.0	48
547	Biosourced Polymetallic Catalysts: An Efficient Means To Synthesize Underexploited Platform Molecules from Carbohydrates. ChemSusChem, 2014, 7, 1915-1923.	6.8	46
548	Highly Selective and Near-Quantitative Conversion of Fructose to 5-Hydroxymethylfurfural Using Mildly Acidic Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2014, 2, 978-981.	6.7	67

#	Article	IF	Citations
549	Performance and characterization of rhenium-modified Rhâ€"Ir alloy catalyst for one-pot conversion of furfural into 1,5-pentanediol. Catalysis Science and Technology, 2014, 4, 2535-2549.	4.1	140
550	Competing uses of biomass: Assessment and comparison of the performance of bio-based heat, power, fuels and materials. Renewable and Sustainable Energy Reviews, 2014, 40, 964-998.	16.4	132
551	Promoting Hydrolytic Hydrogenation of Cellulose to Sugar Alcohols by Mixed Ball Milling of Cellulose and Solid Acid Catalyst. Energy & Fuels, 2014, 28, 5778-5784.	5.1	45
552	Succinic acid-producing biofilms of Actinobacillus succinogenes: reproducibility, stability and productivity. Applied Microbiology and Biotechnology, 2014, 98, 7379-7386.	3.6	43
553	Recent synthetic approaches and emerging bioâ€inspired strategies for the development of sustainable pressureâ€sensitive adhesives derived from renewable building blocks. Journal of Applied Polymer Science, 2014, 131, .	2.6	74
554	Aqueous-Phase Hydrogenation of Succinic Acid to Î³-Butyrolactone and Tetrahydrofuran over Pd/C, Re/C, and Pdâ€"Re/C Catalysts. Industrial & Engineering Chemistry Research, 2014, 53, 9638-9645.	3.7	73
555	Silica-poly(styrenesulphonic acid) nanocomposites for the catalytic dehydration of xylose to furfural. Applied Catalysis B: Environmental, 2014, 150-151, 421-431.	20.2	31
556	A review of advanced catalyst development for Fischerâ€"Tropsch synthesis of hydrocarbons from biomass derived syn-gas. Catalysis Science and Technology, 2014, 4, 2210-2229.	4.1	422
558	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
559	Chemical-Catalytic Approaches to the Production of Furfurals and Levulinates from Biomass. Topics in Current Chemistry, 2014, 353, 41-83.	4.0	25
560	Les divergences au sein de la composante technico-scientifique du nouveau systÃ¨me sectoriel d'innovation de la chimie doublement verte. Innovations, 2014, nÂ° 43, 39-59.	0.3	2
561	Steric effects in the design of Co-Schiff base complexes for the catalytic oxidation of lignin models to para-benzoquinones. Green Chemistry, 2014, 16, 3635-3642.	9.0	41
562	Dehydro-aromatization of cyclohexene-carboxylic acids by sulfuric acid: critical route for bio-based terephthalic acid synthesis. RSC Advances, 2014, 4, 6314.	3.6	16
564	Synthesis of 2,5-furandicarboxylic acid by the aerobic oxidation of 5-hydroxymethyl furfural over supported metal catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2014, 112, 173-187.	1.7	68
565	Catalysing sustainable fuel and chemical synthesis. Applied Petrochemical Research, 2014, 4, 11-31.	1.3	16
566	Microwave-assisted thermochemical and primary hydrolytic conversions of lignocellulosic resources: a review. Biomass Conversion and Biorefinery, 2015, 5, 115.	4.6	3
567	Deoxydehydration of glycerol to allyl alcohol catalyzed by rhenium derivatives. Catalysis Science and Technology, 2014, 4, 3697-3704.	4.1	55
568	Tunable Catalysts for Solvent-Free Biphasic Systems: Pickering Interfacial Catalysts over Amphiphilic Silica Nanoparticles. Journal of the American Chemical Society, 2014, 136, 4869-4872.	13.7	147

#	Article	IF	Citations
569	Saccharomyces cerevisiae: a potential host for carboxylic acid production from lignocellulosic feedstock?. Applied Microbiology and Biotechnology, 2014, 98, 7299-7318.	3.6	20
571	Bioethanol G2: Production Process and Recent Studies. , 2014, , 345-364.		4
572	A Mechanistic Investigation of Acid-Catalyzed Cleavage of Aryl-Ether Linkages: Implications for Lignin Depolymerization in Acidic Environments. ACS Sustainable Chemistry and Engineering, 2014, 2, 472-485.	6.7	317
573	Synthesis and Applications of Alkyl Levulinates. ACS Sustainable Chemistry and Engineering, 2014, 2, 1338-1352.	6.7	360
574	Biobased vinyl levulinate as styrene replacement for unsaturated polyester resins. Journal of Polymer Science Part A, 2014, 52, 3356-3364.	2.3	46
575	Mesoporous carbonâ€“silica solid acid catalysts for producing useful bio-products within the sugar-platform of biorefineries. Green Chemistry, 2014, 16, 4292-4305.	9.0	62
576	Distillation in Bioprocessing. , 2014, , 337-365.		2
577	Electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid on supported Au and Pd bimetallic nanoparticles. Green Chemistry, 2014, 16, 3778-3786.	9.0	217
578	Effect of Preparation Method and CuO Promotion in the Conversion of Ethanol into 1,3â€Butadiene over SiO₂â€“MgO Catalysts. ChemSusChem, 2014, 7, 2505-2515.	6.8	109
579	Integrated electrocatalytic processing of levulinic acid and formic acid to produce biofuel intermediate valeric acid. Green Chemistry, 2014, 16, 1305-1315.	9.0	69
580	Continuous succinic acid production by Actinobacillus succinogenes in a biofilm reactor: Steady-state metabolic flux variation. Biochemical Engineering Journal, 2014, 85, 1-7.	3.6	50
581	Sorbitol hydrogenolysis to glycols by supported ruthenium catalysts. Chinese Journal of Catalysis, 2014, 35, 614-621.	14.0	32
582	Increase in energy and land use by a bio-based chemical industry. Chemical Engineering Research and Design, 2014, 92, 2006-2015.	5.6	9
583	Selective electro-oxidation of glycerol to tartronate or mesoxalate on Au nanoparticle catalyst via electrode potential tuning in anion-exchange membrane electro-catalytic flow reactor. Applied Catalysis B: Environmental, 2014, 147, 871-878.	20.2	66
584	Electrocatalytic hydrogenation of furfural to furfuryl alcohol using platinum supported on activated carbon fibers. Electrochimica Acta, 2014, 135, 139-146.	5.2	98
585	Green upgrading of succinate using dimethyl carbonate for a better integration with fermentative production. Chemical Engineering Journal, 2014, 235, 52-60.	12.7	28
586	Ethanol fermentation of energy beets by self-flocculating and non-flocculating yeasts. Bioresource Technology, 2014, 155, 189-197.	9.6	12
587	Solubility data and modeling for sugar alcohols in ionic liquids. Journal of Chemical Thermodynamics, 2014, 77, 23-30.	2.0	6

#	Article	IF	Citations
588	Influence of the Re introduction method onto Pd/TiO2 catalysts for the selective hydrogenation of succinic acid in aqueous-phase. Catalysis Today, 2014, 235, 127-133.	4.4	45
589	Investigation of Thermochemistry Associated with the Carbonâ€“Carbon Coupling Reactions of Furan and Furfural Using ab Initio Methods. Journal of Physical Chemistry A, 2014, 118, 4392-4404.	2.5	6
590	FeNi nanoparticles with carbon armor as sustainable hydrogenation catalysts: towards biorefineries. Journal of Materials Chemistry A, 2014, 2, 11591.	10.3	56
591	Succinic acid production derived from carbohydrates: An energy and greenhouse gas assessment of a platform chemical toward a bioâ€based economy. Biofuels, Bioproducts and Biorefining, 2014, 8, 16-29.	3.7	246
592	Hydrogenolysis of Glycerol over Cu/ZnO-Based Catalysts: Influence of Transport Phenomena Using the Madonâ€“Boudart Criterion. Industrial & Engineering Chemistry Research, 2014, 53, 18740-18749.	3.7	14
593	Integrated Catalytic Process for Biomass Conversion and Upgrading to C₁₂ Furoin and Alkane Fuel. ACS Catalysis, 2014, 4, 1302-1310.	11.2	94
594	Selective production of 1,2-propanediol by hydrogenolysis of glycerol over bimetallic Ruâ€“Cu nanoparticles supported on TiO2. Applied Catalysis A: General, 2014, 482, 137-144.	4.3	57
595	A Kinetic Study on Acid Hydrolysis of Oil Palm Empty Fruit Bunch Fibers Using a Microwave Reactor System. Energy & Fuels, 2014, 28, 2589-2597.	5.1	18
598	Functional carbons and carbon nanohybrids for the catalytic conversion of biomass to renewable chemicals in the condensed phase. Chinese Journal of Catalysis, 2014, 35, 842-855.	14.0	26
599	Increased 3-hydroxypropionic acid production from glycerol, by modification of central metabolism in Escherichia coli. Microbial Cell Factories, 2014, 13, 64.	4.0	63
601	Selective oxidation of 1,2-propanediol to lactic acid catalyzed by nanosized Mg(OH)2-supported bimetallic Auâ€“Pd catalysts. Applied Catalysis A: General, 2014, 482, 49-60.	4.3	29
602	One-pot catalytic conversion of carbohydrate biomass to lactic acid using an ErCl3 catalyst. Applied Catalysis A: General, 2014, 482, 78-83.	4.3	79
603	Electron-beam distillation of natural polymers. Radiation Physics and Chemistry, 2014, 94, 221-225.	2.8	9
604	Radiation-Induced High-Temperature Conversion of Cellulose. Molecules, 2014, 19, 16877-16908.	3.8	30
605	Green Biorenery. , 2014, , 549-578.		0
606	Catalytic Conversion of Levulinic Acid and Its Esters to Î³-Valerolactone over Silica-Supported Zirconia Catalysts. Bulletin of the Chemical Society of Japan, 2014, 87, 1252-1254.	3.2	24
607	Biocatalytic Synthesis of Polymers: A Contribution to Green Chemistry. , 2014, , 1137-1162.		0
608	Influencing the organic acid profile of beer by application of adsorbent materials. Journal of the Institute of Brewing, 2014, 120, n/a-n/a.	2.3	2

#	Article	IF	Citations
609	Biodegradable Copolyesters of Poly(hexamethylene terephthalate) Containing Bicyclic 2,4:3,5â€Diâ€<i>O</i>â€methyleneâ€<scp>d</scp>â€Glucarate Units. Macromolecular Chemistry and Physics, 2014, 215, 2048-2059.	2.2	8
611	Production of lactic acid using a new homofermentative <scp><i>E</i></scp><i>nterococcus faecalis</i> isolate. Microbial Biotechnology, 2015, 8, 221-229.	4.2	44
612	Sustainable Synthesis of Chiral Tetrahydrofurans through the Selective Dehydration of Pentoses. Chemistry - A European Journal, 2015, 21, 15947-15950.	3.3	14
613	Ruthenium and Formic Acid Based Tandem Catalytic Transformation of Bioderived Furans to Levulinic Acid and Diketones in Water. ChemCatChem, 2015, 7, 4050-4058.	3.7	43
616	A multi-scale, multi-disciplinary approach for assessing the technological, economic and environmental performance of bio-based chemicals. Biochemical Society Transactions, 2015, 43, 1151-1156.	3.4	3
620	Catalytic Ketone Hydrodeoxygenation Mediated by Highly Electrophilic Phosphonium Cations. Angewandte Chemie - International Edition, 2015, 54, 8250-8254.	13.8	100
621	Direct Rutheniumâ€Catalyzed Hydrogenation of Carboxylic Acids to Alcohols. Angewandte Chemie - International Edition, 2015, 54, 10596-10599.	13.8	100
622	Establishment of markerless gene deletion tools in thermophilic Bacillus smithii and construction of multiple mutant strains. Microbial Cell Factories, 2015, 14, 99.	4.0	18
623	Enhancement of 3-hydroxypropionic acid production from glycerol by using a metabolic toggle switch. Microbial Cell Factories, 2015, 14, 155.	4.0	30
624	Engineering Corynebacterium glutamicum for the production of 2,3-butanediol. Microbial Cell Factories, 2015, 14, 171.	4.0	38
625	Continuous succinic acid production by Actinobacillus succinogenes on xylose-enriched hydrolysate. Biotechnology for Biofuels, 2015, 8, 181.	6.2	89
626	Catalytic Ketone Hydrodeoxygenation Mediated by Highly Electrophilic Phosphonium Cations. Angewandte Chemie, 2015, 127, 8368-8372.	2.0	29
627	Aluminiumchloridâ€katalysierter Organosolvâ€Aufschluss von Buchenholz. Chemie-Ingenieur-Technik, 2015, 87, 922-930.	0.8	4
628	Copolymerization as a Strategy to Combine Epoxidized Linseed Oil and Furfuryl Alcohol: The Design of a Fully Bioâ€Based Thermoset. ChemSusChem, 2015, 8, 4149-4161.	6.8	40
629	Synthesis of Cyclic Carbonates Catalysed by Aluminium Heteroscorpionate Complexes. Chemistry - A European Journal, 2015, 21, 9850-9862.	3.3	104
630	Current Pretreatment Technologies for the Development of Cellulosic Ethanol and Biorefineries. ChemSusChem, 2015, 8, 3366-3390.	6.8	321
631	Catalytic Production of Branched Small Alkanes from Biohydrocarbons. ChemSusChem, 2015, 8, 2472-2475.	6.8	52
632	Hetropolyacidâ€Catalyzed Oxidation of Glycerol into Lactic Acid under Mild Baseâ€Free Conditions. ChemSusChem, 2015, 8, 4195-4201.	6.8	38

#	Article	IF	Citations
633	Functional replacement of the Saccharomyces cerevisiae fatty acid synthase with a bacterial type II system allows flexible product profiles. Biotechnology and Bioengineering, 2015, 112, 2618-2623.	3.3	23
634	Environmental and financial implications of ethanol as a bioethylene feedstock versus as a transportation fuel. Environmental Research Letters, 2015, 10, 124018.	5.2	16
635	Direct Production of 5â€Hydroxymethylfurfural via Catalytic Conversion of Simple and Complex Sugars over Phosphated TiO₂. ChemSusChem, 2015, 8, 2907-2916.	6.8	85
636	Phthalic anhydride production from hemicellulose solutions: Technoeconomic analysis and life cycle assessment. AICHE Journal, 2015, 61, 3708-3718.	3.6	14
637	Glycerol/Dodecanol Double Pickering Emulsions Stabilized by Polystyreneâ€Grafted Silica Nanoparticles for Interfacial Catalysis. ChemCatChem, 2015, 7, 3229-3233.	3.7	21
638	Catalytic effect of MgCl₂ on cotton stalk pyrolysis for chemical production at low temperature. Canadian Journal of Chemical Engineering, 2015, 93, 1343-1348.	1.7	13
639	Chemical Conversions of Biomassâ€Derived Platform Chemicals over Copperâ€"Silica Nanocomposite Catalysts. ChemSusChem, 2015, 8, 2345-2357.	6.8	35
640	Oneâ€Pot 2â€Methyltetrahydrofuran Production from Levulinic Acid in Green Solvents Using Niâ€Cu/Al₂O₃ Catalysts. ChemSusChem, 2015, 8, 3483-3488.	6.8	81
641	Biobased Aliphatic Polyesters with DOPO Substituents for Enhanced Flame Retardancy. Macromolecular Chemistry and Physics, 2015, 216, 1447-1461.	2.2	20
642	Early sustainability assessment for potential configurations of integrated biorefineries. Screening of bioâ€based derivatives from platform chemicals. Biofuels, Bioproducts and Biorefining, 2015, 9, 722-748.	3.7	19
645	An overview of the applications of furfural and its derivatives. International Journal of Advanced Chemistry, 2015, 3, 42-47.	0.2	127
646	A Facile and Eco-Effective Catalytic System for Synthesis of 5-Hydroxymethylfurfural from Glucose. BioResources, 2015, 11, .	1.0	8
647	PRODUCTION OF 5-HYDROXYMETHYLFURFURAL (HMF) VIA FRUCTOSE DEHYDRATION: EFFECT OF SOLVENT AND SALTING-OUT. Brazilian Journal of Chemical Engineering, 2015, 32, 119-126.	1.3	60
648	Experimental and Modeling Studies on the Conversion of Inulin to 5-Hydroxymethylfurfural Using Metal Salts in Water. Catalysts, 2015, 5, 2287-2308.	3.5	13
649	Enhanced Sugar Alcohol Production from Cellulose by Pretreatment with Mixed Ball-Milling and Solid Acids. BioResources, 2015, 11, .	1.0	2
650	Opportunities for Bio-Based Solvents Created as Petrochemical and Fuel Products Transition towards Renewable Resources. International Journal of Molecular Sciences, 2015, 16, 17101-17159.	4.1	177
651	Polyethylene Terephthalate: Copolyesters, Composites, and Renewable Alternatives. , 2015, , 113-141.		7
652	Biomass-derived Platform Molecules Upgrading through Catalytic Processes: Yielding Chemicals and Fuels. Journal of the Japan Petroleum Institute, 2015, 58, 257-273.	0.6	29

#	Article	IF	Citations
653	Recyclable Magnetite Nanoparticle Catalyst for One-Pot Conversion of Cellobiose to 5-Hydroxymethylfurfural in Water. Journal of Nanomaterials, 2015, 2015, 1-8.	2.7	12
654	On-Site Enzyme Production by Trichoderma asperellum for the Degradation of Duckweed. Fungal Genomics & Biology, 2015, 05, .	0.4	12
655	Characteristics and Kinetics of the Aldonic Acids Production using Whole-cell catalysis of Gluconobacter oxydans. BioResources, 2015, 10, .	1.0	6
657	An integrated process for the production of 2,5-dimethylfuran from fructose. Green Chemistry, 2015, 17, 3310-3313.	9.0	79
658	The effect of the composition of spruce and pine tannin-based foams on their physical, morphological and compression properties. Industrial Crops and Products, 2015, 74, 158-164.	5.2	15
659	Continuous <scp>l</scp>-lactic acid production from defatted rice bran hydrolysate using corn stover bagasse immobilized carrier. RSC Advances, 2015, 5, 18511-18517.	3.6	15
660	Whole-Cell Biocatalytic Production of 2,5-Furandicarboxylic Acid. Microbiology Monographs, 2015, , 207-223.	0.6	11
661	Synthesis of biologically active natural products, aspergillides A and B, entirely from biomass derived platform chemicals. Green Chemistry, 2015, 17, 3746-3750.	9.0	29
662	Hydrothermally Stable, Conformal, Sulfated Zirconia Monolayer Catalysts for Glucose Conversion to 5-HMF. ACS Catalysis, 2015, 5, 4345-4352.	11.2	137
663	Solid base catalysed 5-HMF oxidation to 2,5-FDCA over Au/hydrotalcites: fact or fiction?. Chemical Science, 2015, 6, 4940-4945.	7.4	125
664	Flash-metathesis for the coupling of sustainable (poly)hydroxyl Î²-methylstyrenes from essential oils. Green Chemistry, 2015, 17, 3756-3761.	9.0	26
665	Relevance of the acidic 1-butyl-3-methylimidazolium hydrogen sulphate ionic liquid in the selective catalysis of the biomass hemicellulose fraction. RSC Advances, 2015, 5, 47153-47164.	3.6	76
666	Biorefinery Concepts in Comparison to Petrochemical Refineries. , 2015, , 3-33.		136
667	White Biotechnology for Organic Acids. , 2015, , 409-444.		15
668	Selective Aerobic Oxidation of 5â€HMF into 2,5â€Furandicarboxylic Acid with Pt Catalysts Supported on TiO₂â€•and ZrO₂â€Based Supports. ChemSusChem, 2015, 8, 1206-1217.	6.8	190
669	Selective dehydration of sorbitol to 1,4-anhydro-<scp>d</scp>-sorbitol catalyzed by a polymer-supported acid catalyst. RSC Advances, 2015, 5, 28233-28241.	3.6	14
670	The role of mesoporosity and Si/Al ratio in the catalytic etherification of glycerol with benzyl alcohol using ZSM-5 zeolites. Journal of Molecular Catalysis A, 2015, 406, 40-45.	4.8	20
671	Conformational steering in dicarboxy acids: the native structure of succinic acid. Physical Chemistry Chemical Physics, 2015, 17, 19726-19734.	2.8	9

#	Article	IF	Citations
672	Tuning catalytic selectivity of liquid-phase hydrogenation of furfural via synergistic effects of supported bimetallic catalysts. Applied Catalysis A: General, 2015, 500, 23-29.	4.3	109
673	Biomass-derived sugars and furans: Which polymerize more during their hydrolysis?. Fuel Processing Technology, 2015, 137, 212-219.	7.2	64
675	Recyclable Supported Carbene Catalysts for High-Yielding Self-Condensation of Furaldehydes into C₁₀ and C₁₂ Furoins. ACS Catalysis, 2015, 5, 6907-6917.	11.2	54
676	Facile synthesis of 5-hydroxymethylfurfural: a sustainable raw material for the synthesis of key intermediates toward 21,23-dioxaporphyrins. RSC Advances, 2015, 5, 100401-100407.	3.6	18
677	Zeolites and Zeotypes for Oil and Gas Conversion. Advances in Catalysis, 2015, 58, 143-314.	0.2	65
678	Production of biofuels and biomolecules in the framework of circular economy: A regional case study. Waste Management and Research, 2015, 33, 1121-1126.	3.9	16
679	Preparation and characterization of carbon-encapsulated iron nanoparticles and their catalytic activity in the hydrogenation of levulinic acid. Journal of Materials Science, 2015, 50, 334-343.	3.7	23
680	Toward replacement of styrene by bio-based methacrylates in unsaturated polyester resins. European Polymer Journal, 2015, 67, 539-550.	5.4	81
681	Catalytic conversion of Helianthus tuberosus L. to sugars, 5-hydroxymethylfurfural and levulinic acid using hydrothermal reaction. Biomass and Bioenergy, 2015, 74, 113-121.	5.7	18
682	Catalytic hydrothermal conversion of macroalgae-derived alginate: effect of pH on production of furfural and valuable organic acids under subcritical water conditions. Journal of Molecular Catalysis A, 2015, 399, 106-113.	4.8	31
683	Conversion of carbohydrates to methyl levulinate catalyzed by sulfated montmorillonite. Catalysis Communications, 2015, 62, 67-70.	3.3	39
684	Advances in Thermochemical Conversion of Biomassâ€"Introduction. , 2015, , 3-30.		44
685	Enzymatic synthesis and preliminary evaluation as coating of sorbitol-based, hydroxy-functional polyesters with controlled molecular weights. European Polymer Journal, 2015, 67, 459-475.	5.4	41
686	Pd-catalyzed decarboxylation of glutamic acid and pyroglutamic acid to bio-based 2-pyrrolidone. Green Chemistry, 2015, 17, 2263-2270.	9.0	50
687	Catalytic production of 2,5-dimethylfuran from 5-hydroxymethylfurfural over Ni/Co3O4 catalyst. Catalysis Communications, 2015, 66, 55-59.	3.3	91
688	Hydrogenation/Hydrolytic Ring Opening of 5-HMF by Cp*-Iridium(III) Half-Sandwich Complexes for Bioketones Synthesis. ACS Catalysis, 2015, 5, 788-792.	11.2	61
689	The Use of Glycerol Carbonate in the Preparation of Highly Branched Siloxy Polymers. Silicon, 2015, 7, 5-13.	3.3	5
690	Succinic Acid Removal and Recovery from Aqueous Solution Using Hydrotalcite Granules: Experiments and Modeling. Industrial & Engineering Chemistry Research, 2015, 54, 1123-1130.	3.7	9

#	Article	IF	Citations
691	Glycerol acetals and ketals as bio-based solvents: positioning in Hansen and COSMO-RS spaces, volatility and stability towards hydrolysis and autoxidation. Green Chemistry, 2015, 17, 1779-1792.	9.0	59
692	From monomers to polymers from renewable resources: Recent advances. Progress in Polymer Science, 2015, 48, 1-39.	24.7	530
693	Furan's Gambit: Electrophileâ€Attackâ€Triggered Sacrifice of Furan Rings for the Intramolecular Construction of Azaheterocycles. European Journal of Organic Chemistry, 2015, 2015, 2999-3016.	2.4	50
694	Ethers and acetals, promising petrochemicals from renewable sources. Petroleum Chemistry, 2015, 55, 1-21.	1.4	32
695	Biorefineries for the production of top building block chemicals and their derivatives. Metabolic Engineering, 2015, 28, 223-239.	7.0	425
696	5â€hydroxymethylfurfural conversion by fungal arylâ€alcohol oxidase and unspecific peroxygenase. FEBS Journal, 2015, 282, 3218-3229.	4.7	132
697	Kinetic study of the extraction of hemicellulosic carbohydrates from sugarcane bagasse by hot water treatment. Industrial Crops and Products, 2015, 67, 1-6.	5.2	69
698	Microorganisms for the Production of Lactic Acid and Organic Lactates. Microbiology Monographs, 2015, , 225-273.	0.6	20
699	Engineering the ligninolytic enzyme consortium. Trends in Biotechnology, 2015, 33, 155-162.	9.3	92
700	Current Technologies, Economics, and Perspectives for 2,5â€Dimethylfuran Production from Biomassâ€Derived Intermediates. ChemSusChem, 2015, 8, 1133-1142.	6.8	101
701	Catalytic Total Hydrodeoxygenation of Biomassâ€Derived Polyfunctionalized Substrates to Alkanes. ChemSusChem, 2015, 8, 1114-1132.	6.8	123
702	Mechanistic Studies on the Cascade Conversion of 1,3â€Dihydroxyacetone and Formaldehyde into Î±â€Hydroxyâ€Î³â€butyrolactone. ChemSusChem, 2015, 8, 853-860.	6.8	22
703	Mild Deoxygenation of Aromatic Ketones and Aldehydes over Pd/C Using Polymethylhydrosiloxane as the Reducing Agent. Angewandte Chemie - International Edition, 2015, 54, 5122-5126.	13.8	80
704	Cellulose reactivity in ethanol at elevate temperature and the kinetics of one-pot preparation of ethyl levulinate from cellulose. Renewable Energy, 2015, 78, 583-589.	8.9	29
705	Autocatalytic Production of 5-Hydroxymethylfurfural from Fructose-Based Carbohydrates in a Biphasic System and Its Purification. Industrial & Engineering Chemistry Research, 2015, 54, 2657-2666.	3.7	64
706	DFT Study of the Molybdenumâ€Catalyzed Deoxydehydration of Vicinal Diols. Chemistry - A European Journal, 2015, 21, 3435-3442.	3.3	38
708	Catalytic upgrading of bioâ€oils by esterification. Journal of Chemical Technology and Biotechnology, 2015, 90, 780-795.	3.2	81
709	Inhibition of Metal Hydrogenation Catalysts by Biogenic Impurities. Catalysis Letters, 2015, 145, 15-22.	2.6	27

#	Article	IF	Citations
710	Synthesis of Snâ€Beta with Exclusive and High Framework Sn Content. ChemCatChem, 2015, 7, 1152-1160.	3.7	105
711	Electrochemistry for the generation of renewable chemicals: electrochemical conversion of levulinic acid. RSC Advances, 2015, 5, 26634-26643.	3.6	69
712	Photocatalytic Direct Conversion of Ethanol to 1,1â€•Diethoxyethane over Nobleâ€Metalâ€Loaded TiO₂ Nanotubes and Nanorods. ChemSusChem, 2015, 8, 1226-1231.	6.8	40
713	The Direct Conversion of Sugars into 2,5â€Furandicarboxylic Acid in a Triphasic System. ChemSusChem, 2015, 8, 1151-1155.	6.8	61
714	Dehydration of sorbitol to isosorbide over H-beta zeolites with high Si/Al ratios. Green Chemistry, 2015, 17, 2732-2735.	9.0	112
715	Fuels and plastics from lignocellulosic biomass via the furan pathway: an economic analysis. Biofuels, Bioproducts and Biorefining, 2015, 9, 307-325.	3.7	25
716	Thermodynamics-based design of microbial cell factories for anaerobic product formation. Trends in Biotechnology, 2015, 33, 534-546.	9.3	56
717	Preparation of lignin/glycerol-based bis(cyclic carbonate) for the synthesis of polyurethanes. Green Chemistry, 2015, 17, 4546-4551.	9.0	84
718	A Novel Group Contribution Method for the Prediction of the Derived Cetane Number of Oxygenated Hydrocarbons. Energy & Fuels, 2015, 29, 5781-5801.	5.1	86
719	Bio-based solvents for the Baylisâ€"Hillman reaction of HMF. RSC Advances, 2015, 5, 69238-69242.	3.6	20
720	Production and catalytic transformation of levulinic acid: A platform for speciality chemicals and fuels. Renewable and Sustainable Energy Reviews, 2015, 51, 986-997.	16.4	291
721	Optimization and Analysis of Chemical Synthesis Routes for the Production of Biofuels. Computer Aided Chemical Engineering, 2015, 37, 1103-1108.	0.5	0
722	Catalysis for the Production of Sustainable Chemicals and Fuels from Biomass. , 2015, , 99-123.		5
723	Integrated Bio- and Chemocatalytic Processing for Biorenewable Chemicals and Fuels. , 2015, , 157-177.		11
724	Rational design and evolutional fine tuning of Saccharomyces cerevisiae for biomass breakdown. Current Opinion in Chemical Biology, 2015, 29, 1-9.	6.1	38
725	A palladium-catalysed multicomponent coupling approach to conjugated poly(1,3-dipoles) and polyheterocycles. Nature Communications, 2015, 6, 7411.	12.8	59
726	Multi-scale exploration of the technical, economic, and environmental dimensions of bio-based chemical production. Metabolic Engineering, 2015, 31, 1-12.	7.0	32
727	Chemoselective conversion of biologically sourced polyols into chiral synthons. Nature Chemistry, 2015, 7, 576-581.	13.6	91

#	Article	IF	Citations
728	Fully biobased poly(propylene 2,5-furandicarboxylate) for packaging applications: excellent barrier properties as a function of crystallinity. Green Chemistry, 2015, 17, 4162-4166.	9.0	153
729	Glucosyloxymethylfurfural (GMF): a creative renewable scaffold towards bioinspired architectures. Pure and Applied Chemistry, 2015, 87, 827-839.	1.9	19
730	Formation of 5-(Hydroxymethyl)furfural by Stepwise Dehydration over TiO₂ with Water-Tolerant Lewis Acid Sites. Journal of Physical Chemistry C, 2015, 119, 17117-17125.	3.1	82
731	A biocatalytic approach towards sustainable furanicâ€“aliphatic polyesters. Polymer Chemistry, 2015, 6, 5198-5211.	3.9	126
732	Environmentally benign synthesis of saturated and unsaturated aliphatic polyesters via enzymatic polymerization of biobased monomers derived from renewable resources. Polymer Chemistry, 2015, 6, 5451-5463.	3.9	81
733	Linear and three-arm star hydroxytelechelic poly(benzyl Î²-malolactonate)s: a straightforward one-step synthesis through ring-opening polymerization. Polymer Chemistry, 2015, 6, 5851-5859.	3.9	8
734	Organocatalytic Upgrading of Furfural and 5-Hydroxymethyl Furfural to C10 and C12 Furoins with Quantitative Yield and Atom-Efficiency. International Journal of Molecular Sciences, 2015, 16, 7143-7158.	4.1	38
735	Biobased polyesters and other polymers from 2,5-furandicarboxylic acid: a tribute to furan excellency. Polymer Chemistry, 2015, 6, 5961-5983.	3.9	531
736	Recent developments on the catalytic technologies for the transformation of biomass into biofuels: A patent survey. Renewable and Sustainable Energy Reviews, 2015, 51, 273-287.	16.4	77
737	CHAPTER 1. The Search for Functional Porous Carbons from Sustainable Precursors. RSC Green Chemistry, 2015, , 3-49.	0.1	5
738	Selective Production of Levulinic Acid from Furfuryl Alcohol in THF Solvent Systems over H-ZSM-5. ACS Catalysis, 2015, 5, 3354-3359.	11.2	116
739	Ball milling pretreatment and diluted acid hydrolysis of oil palm empty fruit bunch (EFB) fibres for the production of levulinic acid. Journal of the Taiwan Institute of Chemical Engineers, 2015, 52, 85-92.	5.3	26
740	Process systems engineering studies for the synthesis of catalytic biomass-to-fuels strategies. Computers and Chemical Engineering, 2015, 81, 57-69.	3.8	45
741	A highly sustainable route to pyrrolidone derivatives â€“ direct access to biosourced solvents. Green Chemistry, 2015, 17, 3251-3254.	9.0	57
742	Structureâ€“performance correlations of Mgâ€“Al hydrotalcite catalysts for the isomerization of glucose into fructose. Journal of Catalysis, 2015, 327, 1-9.	6.2	113
743	Conversion of bamboo fiber into 5-hydroxymethylfurfural catalyzed by sulfamic acid with microwave assistance in biphasic system. Industrial Crops and Products, 2015, 70, 266-271.	5.2	38
744	Kinetic modeling of hemicellulose-derived biomass hydrolysis under high pressure CO2â€“H2O mixture technology. Journal of Supercritical Fluids, 2015, 99, 95-102.	3.2	39
745	Reductive lignocellulose fractionation into soluble lignin-derived phenolic monomers and dimers and processable carbohydrate pulps. Energy and Environmental Science, 2015, 8, 1748-1763.	30.8	688

#	Article	IF	Citations
746	Synthesis and Pyrolysis of Selected Metal Levulinates. Bioenergy Research, 2015, 8, 1956-1961.	3.9	3
747	The effects of combined catalysis of oxalic acid and seawater on the kinetics of xylose and arabinose dehydration to furfural. International Journal of Energy and Environmental Engineering, 2015, 6, 21-30.	2.5	24
748	Reactivity of d-fructose and d-xylose in acidic media in homogeneous phases. Carbohydrate Research, 2015, 409, 9-19.	2.3	28
749	Enzyme-catalyzed selective oxidation of 5-hydroxymethylfurfural (HMF) and separation of HMF and 2,5-diformylfuran using deep eutectic solvents. Green Chemistry, 2015, 17, 3718-3722.	9.0	151
750	Conversion of plant materials into hydroxymethylfurfural using ionic liquids. Environmental Chemistry Letters, 2015, 13, 173-190.	16.2	29
751	Catalytic Conversion of Chitosan to 5-Hydroxymethylfurfural Under Low Temperature Hydrothermal Process. Applied Biochemistry and Biotechnology, 2015, 176, 1151-1161.	2.9	45
752	Effect of Alkali and Alkaline Earth Metal Chlorides on Cellobiose Decomposition in Hot-Compressed Water. Industrial & Engineering Chemistry Research, 2015, 54, 5450-5459.	3.7	11
753	Robust and Recyclable Nonprecious Bimetallic Nanoparticles on Carbon Nanotubes for the Hydrogenation and Hydrogenolysis of 5â€Hydroxymethylfurfural. ChemCatChem, 2015, 7, 1701-1707.	3.7	122
755	Integrated biorefineries: CO2 utilization for maximum biomass conversion. Renewable and Sustainable Energy Reviews, 2015, 47, 151-161.	16.4	49
756	Combined biomass valorization and hydrogen production in a photoelectrochemical cell. Nature Chemistry, 2015, 7, 328-333.	13.6	564
757	Optimization of Alkaline Sulfite Pretreatment and Comparative Study with Sodium Hydroxide Pretreatment for Improving Enzymatic Digestibility of Corn Stover. Journal of Agricultural and Food Chemistry, 2015, 63, 3229-3234.	5.2	20
758	Synthesis and Verification of Biobased Terephthalic Acid from Furfural. Scientific Reports, 2015, 5, 8249.	3.3	86
759	Ru nanoparticles confined in Zr-containing spherical mesoporous silica containers for hydrogenation of levulinic acid and its esters into Î³-valerolactone at ambient conditions. Catalysis Today, 2015, 258, 262-269.	4.4	59
760	Catalytic effect of aluminium chloride on the example of the conversion of sugar model compounds. Journal of Molecular Catalysis A, 2015, 402, 64-70.	4.8	10
761	Lignocellulosic biomass: a sustainable platform for the production of bio-based chemicals and polymers. Polymer Chemistry, 2015, 6, 4497-4559.	3.9	1,917
762	Carbon Dioxide Sorption and Transport in Amorphous Poly(ethylene furanoate). Macromolecules, 2015, 48, 2184-2193.	4.8	251
763	Copperâ€“Zinc Alloy Nanopowder: A Robust Preciousâ€Metalâ€Free Catalyst for the Conversion of 5â€Hydroxymethylfurfural. ChemSusChem, 2015, 8, 1323-1327.	6.8	106
764	High performing and stable supported nano-alloys for the catalytic hydrogenation of levulinic acid to Î³-valerolactone. Nature Communications, 2015, 6, 6540.	12.8	275

#	Article	IF	Citations
765	Synthesis of 5-hydroxymethylfurfural (HMF) by acid catalyzed dehydration of glucoseâ€“fructose mixtures. Chemical Engineering Journal, 2015, 273, 455-464.	12.7	114
766	Heteropoly tungstate supported on tantalum oxide: a highly active acid catalyst forÂthe selective conversion of fructose to 5-hydroxy methyl furfural. Reaction Kinetics, Mechanisms and Catalysis, 2015, 115, 663-678.	1.7	16
767	DFT investigations on the ring-opening polymerization of substituted cyclic carbonates catalyzed by zinc-{Î²-diketiminate} complexes. Polymer Chemistry, 2015, 6, 3336-3352.	3.9	23
768	Diversity of Lactobacillus reuteri Strains in Converting Glycerol into 3-Hydroxypropionic Acid. Applied Biochemistry and Biotechnology, 2015, 177, 923-939.	2.9	36
769	Enzymatic Polymerization of Furan-2,5-Dicarboxylic Acid-Based Furanic-Aliphatic Polyamides as Sustainable Alternatives to Polyphthalamides. Biomacromolecules, 2015, 16, 3674-3685.	5.4	113
770	On the metalâ€“support synergy for selective gas-phase ethanol oxidation over MgCuCr 2 O 4 supported metal nanoparticle catalysts. Journal of Catalysis, 2015, 331, 138-146.	6.2	39
771	Reusable Mgâ€“Al hydrotalcites for the catalytic synthesis of diglycerol dicarbonate from diglycerol and dimethyl carbonate. Catalysis Today, 2015, 257, 274-280.	4.4	14
772	Experimental and modelling studies on the uncatalysed thermal conversion of inulin to 5-hydroxymethylfurfural and levulinic acid. Sustainable Chemical Processes, 2015, 3, .	2.3	8
773	Preparation of electrode for electric double layer capacitor from electrospun lignin fibers. Holzforschung, 2015, 69, 1097-1106.	1.9	42
774	Microbial conversion of pyrolytic products to biofuels: a novel and sustainable approach toward second-generation biofuels. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1557-1579.	3.0	36
775	Cationic mononuclear ruthenium carboxylates as catalyst prototypes for self-induced hydrogenation of carboxylic acids. Nature Communications, 2015, 6, 8140.	12.8	55
776	One step synthesis of ethyl levulinate biofuel by ethanolysis of renewable furfuryl alcohol over hierarchical zeolite catalyst. RSC Advances, 2015, 5, 79224-79231.	3.6	49
777	Experimental and Kinetic Modeling Studies on the Sulfuric Acid Catalyzed Conversion of <scp>d</scp>-Fructose to 5-Hydroxymethylfurfural and Levulinic Acid in Water. ACS Sustainable Chemistry and Engineering, 2015, 3, 3024-3034.	6.7	134
778	Manufacture of furfural in biphasic media made up of an ionic liquid and a co-solvent. Industrial Crops and Products, 2015, 77, 163-166.	5.2	33
779	Transesterification of glycerol with dimethyl carbonate over calcined Ca-Al hydrocalumite. Chinese Journal of Catalysis, 2015, 36, 1759-1765.	14.0	65
780	Chemicals from Biomass: Chemoselective Reductive Amination of Ethyl Levulinate with Amines. ACS Catalysis, 2015, 5, 5812-5821.	11.2	99
781	Catalytic hydrogenolysis of glycerol to propanediols: a review. RSC Advances, 2015, 5, 74611-74628.	3.6	145
782	Exploring the Chemistry of Furans: Synthesis of Functionalized Bis(furanâ€2â€yl)methanes and 1,6â€Dihydropyridazines. European Journal of Organic Chemistry, 2015, 2015, 6146-6151.	2.4	23

#	Article	IF	Citations
783	Deactivation study of supported Pt catalyst on glycerol hydrogenolysis. Applied Catalysis A: General, 2015, 507, 34-43.	4.3	30
784	Continuous succinic acid fermentation by Escherichia coli KJ122 with cell recycle. Process Biochemistry, 2015, 50, 2004-2011.	3.7	12
785	Catalytic conversion of Jerusalem artichoke tuber into hexitols using the bifunctional catalyst Ru/(AC-SO3H). Chinese Journal of Catalysis, 2015, 36, 1694-1700.	14.0	9
786	Absorption of SO₂by renewable ionic liquid/polyethylene glycol binary mixture and thermodynamic analysis. RSC Advances, 2015, 5, 87750-87757.	3.6	11
787	Investigation of a deep eutectic solvent formed by levulinic acid with quaternary ammonium salt as an efficient SO₂ absorbent. New Journal of Chemistry, 2015, 39, 8158-8164.	2.8	98
788	Duckweed biomass as a renewable biorefinery feedstock: Ethanol and succinate production from Wolffia globosa. Biomass and Bioenergy, 2015, 81, 364-368.	5.7	38
789	Theoretical kinetic study for methyl levulinate: oxidation by OH and CH₃ radicals and further unimolecular decomposition pathways. Physical Chemistry Chemical Physics, 2015, 17, 23384-23391.	2.8	19
790	Selective oxidation of glycerol over nitrogen-doped carbon nanotubes supported platinum catalyst in base-free solution. Catalysis Communications, 2015, 70, 72-76.	3.3	35
791	Kinetic study of levulinic acid production from corn stalk at relatively high temperature using FeCl3 as catalyst: A simplified model evaluated. Industrial Crops and Products, 2015, 76, 672-680.	5.2	57
792	Catalytic dehydration of<scp>d</scp>-xylose to furfural over a tantalum-based catalyst in batch and continuous process. RSC Advances, 2015, 5, 70139-70146.	3.6	12
793	Confinement Effects in Lewis Acid-Catalyzed Sugar Conversion: Steering Toward Functional Polyester Building Blocks. ACS Catalysis, 2015, 5, 5803-5811.	11.2	62
794	Hexamethylenediamine (HMDA) from fossil- vs. bio-based routes: an economic and life cycle assessment comparative study. Green Chemistry, 2015, 17, 4760-4772.	9.0	52
795	An interchangeable homogeneous â‡" heterogeneous catalyst system for furfural upgrading. Green Chemistry, 2015, 17, 5149-5153.	9.0	18
796	Linear polyester synthesized from furfural-based monomer by photoreaction in sunlight. Green Chemistry, 2015, 17, 4720-4724.	9.0	40
797	Comprehensive investigation of the biomass derived furfuryl alcohol oligomer formation over tungsten oxide catalysts. Catalysis Communications, 2015, 72, 11-15.	3.3	15
798	Catalytic Conversions of Furfural to Pentanediols. Catalysis Surveys From Asia, 2015, 19, 249-256.	2.6	67
799	Simple and Efficient Furfural Production from Xylose in Media Containing 1-Butyl-3-Methylimidazolium Hydrogen Sulfate. Industrial & Engineering Chemistry Research, 2015, 54, 8368-8373.	3.7	69
800	A simple method for the synthesis of furfuryl ketones and furylacetic acid derivatives. Chemistry of Heterocyclic Compounds, 2015, 51, 621-629.	1.2	10

#	Article	IF	Citations
801	Hydrogenation of biomass-derived levulinic acid to Î³-valerolactone catalyzed by PNP-Ir pincer complexes: A computational study. Journal of Organometallic Chemistry, 2015, 797, 165-170.	1.8	13
802	Direct copolycondensation of biobased elastomers based on lactic acid with tunable and versatile properties. Polymer Chemistry, 2015, 6, 8112-8123.	3.9	37
803	Hydrogenolysis of glycerol over Cu-substituted hydrocalumite mediated catalysts. Applied Clay Science, 2015, 118, 68-73.	5.2	18
804	Catalytic behaviour of TiO2â€“ZrO2 binary oxide synthesized by solâ€“gel process for glucose conversion to 5-hydroxymethylfurfural. RSC Advances, 2015, 5, 80346-80352.	3.6	46
805	Microwave assisted rapid conversion of fructose into 5-HMF over solid acid catalysts. RSC Advances, 2015, 5, 106053-106060.	3.6	16
806	Saccharification of fermented residues as integral part in a conceptual hydrogen-producing biorefinery. International Journal of Hydrogen Energy, 2015, 40, 17200-17211.	7.1	14
807	Simultaneous conversion of glucose and xylose to 3-hydroxypropionic acid in engineered Escherichia coli by modulation of sugar transport and glycerol synthesis. Bioresource Technology, 2015, 198, 709-716.	9.6	42
808	Production of C 2 and C 3 polyols from d -sorbitol over hydrotalcite-like compounds mediated bi-functional Niâ€“Mgâ€“Alâ€“Ox catalysts. Fuel Processing Technology, 2015, 139, 86-90.	7.2	15
809	Production of Biofuels and Chemicals with Microwave. Biofuels and Biorefineries, 2015, , .	0.5	22
810	Opportunities, recent trends and challenges of integrated biorefinery: Part I. Renewable and Sustainable Energy Reviews, 2015, 43, 1427-1445.	16.4	338
811	Selective Hydrogenation of Lactic Acid to 1,2â€Propanediol over Highly Active Rutheniumâ€“Molybdenum Oxide Catalysts. ChemSusChem, 2015, 8, 1170-1178.	6.8	75
812	Catalytic transformations of cellulose and its derived carbohydrates into 5-hydroxymethylfurfural, levulinic acid, and lactic acid. Science China Chemistry, 2015, 58, 29-46.	8.2	76
813	Value-Added Chemicals from Microalgae: Greener, More Economical, or Both?. ACS Sustainable Chemistry and Engineering, 2015, 3, 82-96.	6.7	108
814	One-pot production of hydrocarbons from xylitol by hydroiodic acid reduction. Fuel Processing Technology, 2015, 131, 325-329.	7.2	9
815	Hydrocarbon fuel synthesis from sorbitol over bifunctional catalysts: Association of tungstated titania with platinum, palladium or iridium. Catalysis Today, 2015, 242, 91-100.	4.4	22
816	Acid-catalysed xylose dehydration into furfural in the presence of kraft lignin. Bioresource Technology, 2015, 177, 94-101.	9.6	28
817	Selective aerobic oxidation of the biomass-derived precursor 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid under mild conditions over a magnetic palladium nanocatalyst. Green Chemistry, 2015, 17, 1308-1317.	9.0	233
818	Review: Sustainable production of hydroxymethylfurfural and levulinic acid: Challenges and opportunities. Biomass and Bioenergy, 2015, 72, 143-183.	5.7	430

#	Article	IF	Citations
819	Doubly Renewable Cellulose Polymer for Waterâ€Based Coatings. ChemSusChem, 2015, 8, 63-66.	6.8	16
820	A low-cost method for obtaining high-value bio-based propylene glycol from sugar beet pulp. RSC Advances, 2015, 5, 2299-2304.	3.6	19
821	Biorefining in the prevailing energy and materials crisis: a review of sustainable pathways for biorefinery value chains and sustainability assessment methodologies. Renewable and Sustainable Energy Reviews, 2015, 43, 244-263.	16.4	209
822	Microorganisms in Biorefineries. Microbiology Monographs, 2015, , .	0.6	3
823	Effects of alkyl group and temperature on the interactions between furfural and alcohol: Insight from density and sound velocity studies. Thermochimica Acta, 2015, 599, 13-22.	2.7	35
824	Conversion of glucose into 5-hydroxymethylfurfural with boric acid in molten mixtures of choline salts and carboxylic acids. Biomass and Bioenergy, 2015, 72, 227-232.	5.7	49
825	Platform chemical production from food wastes using a biorefinery concept. Journal of Chemical Technology and Biotechnology, 2015, 90, 1364-1379.	3.2	76
826	Cellâ€free metabolic engineering: Biomanufacturing beyond the cell. Biotechnology Journal, 2015, 10, 69-82.	3.5	270
827	Humin based by-products from biomass processing as a potential carbonaceous source for synthesis gas production. Green Chemistry, 2015, 17, 959-972.	9.0	153
828	The potential of microwave technology for the recovery, synthesis and manufacturing of chemicals from bio-wastes. Catalysis Today, 2015, 239, 80-89.	4.4	70
829	Analysis of sustainability metrics and application to the catalytic production of higher alcohols from ethanol. Catalysis Today, 2015, 239, 56-79.	4.4	45
830	Semiâ€Aromatic Polyesters Based on a Carbohydrateâ€Derived Rigid Diol for Engineering Plastics. ChemSusChem, 2015, 8, 67-72.	6.8	46
831	Opportunities for zeolites in biomass upgradingâ€"Lessons from the refining and petrochemical industry. Catalysis Today, 2015, 243, 10-22.	4.4	81
832	Synthesis of high quality alkyl naphthenic kerosene by reacting an oil refinery with a biomass refinery stream. Energy and Environmental Science, 2015, 8, 317-331.	30.8	81
833	Microwave, ultrasound and ball mill procedures for bio-waste valorisation. Green Chemistry, 2015, 17, 684-693.	9.0	78
834	Reactive distillation process for the production of furfural using solid acid catalysts. Green Chemistry, 2015, 17, 1453-1466.	9.0	57
835	Isohexides as Versatile Scaffolds for Asymmetric Catalysis. European Journal of Organic Chemistry, 2015, 2015, 441-457.	2.4	15
836	Selective catalytic oxidation of sugar alcohols to lactic acid. Green Chemistry, 2015, 17, 594-600.	9.0	52

#	Article	IF	Citations
837	Direct catalytic conversion of cellulose to liquid straight-chain alkanes. Energy and Environmental Science, 2015, 8, 230-240.	30.8	202
838	Catalytic conversion of hemicellulosic biomass to lactic acid in pH neutral aqueous phase media. Applied Catalysis B: Environmental, 2015, 162, 149-157.	20.2	122
839	Hydrogenation of levulinic acid to Î³-valerolactone over copper catalysts supported on Î³-Al2O3. Catalysis Today, 2015, 250, 209-217.	4.4	100
840	Selective oxidation of glycerol over carbon nanofibers supported Pt catalysts in a base-free aqueous solution. Catalysis Communications, 2015, 59, 5-9.	3.3	40
841	Recovery of HMF from aqueous solution by zeolitic imidazolate frameworks. Chemical Engineering Science, 2015, 124, 170-178.	3.8	58
842	Biorefinery options to valorize the spent liquor from sulfite pulping. Journal of Chemical Technology and Biotechnology, 2015, 90, 2218-2226.	3.2	40
843	Chemical conversion pathways for carbohydrates. Green Chemistry, 2015, 17, 40-71.	9.0	291
845	Development of Second-Generation Biorefineries. , 2016, , 11-40.		4
846	Superelectrophilic activation of 5-hydroxymethylfurfural and 2,5-diformylfuran: organic synthesis based on biomass-derived products. Beilstein Journal of Organic Chemistry, 2016, 12, 2125-2135.	2.2	22
847	Production of Levulinic Acid from Pennisetum alopecuroides in the Presence of an Acid Catalyst. BioResources, 2016, 11, .	1.0	12
848	Biopolymers â€“ Application in Nanoscience and Nanotechnology. , 0, , .		53
849	Isosorbide and dimethyl carbonate: a green match. Beilstein Journal of Organic Chemistry, 2016, 12, 2256-2266.	2.2	42
850	Biomass and biofuel supply chain modeling and optimization. , 2016, , 149-166.		3
851	Microbial Production of Short Chain Fatty Acids from Lignocellulosic Biomass: Current Processes and Market. BioMed Research International, 2016, 2016, 1-15.	1.9	84
852	3-Hydroxy-propionic Acid. , 2016, , 101-117.		4
853	Biomass Derived Chemicals: Furfural Oxidative Esterification to Methyl-2-furoate over Gold Catalysts. Catalysts, 2016, 6, 107.	3.5	40
854	New Frontiers in the Catalytic Synthesis of Levulinic Acid: From Sugars to Raw and Waste Biomass as Starting Feedstock. Catalysts, 2016, 6, 196.	3.5	180
855	Direct Catalytic Conversion of Cellulose to 5-Hydroxymethylfurfural Using Ionic Liquids. Inorganics, 2016, 4, 32.	2.7	26

#	Article	IF	Citations
856	1,3-Butanediol Dibenzoate. MolBank, 2016, 2016, M905.	0.5	0
857	Microwave-Assisted Î³-Valerolactone Production for Biomass Lignin Extraction: A Cascade Protocol. Molecules, 2016, 21, 413.	3.8	28
858	A Novel Strategy for Biomass Upgrade: Cascade Approach to the Synthesis of Useful Compounds via C-C Bond Formation Using Biomass-Derived Sugars as Carbon Nucleophiles. Molecules, 2016, 21, 937.	3.8	17
859	Enzymatic Synthesis of Biobased Polyesters and Polyamides. Polymers, 2016, 8, 243.	4.5	181
860	What Is the Bioeconomy? A Review of the Literature. Sustainability, 2016, 8, 691.	3.2	441
861	Petroleum Versus Biorefinery-Based Platform Chemicals. , 2016, , 33-53.		3
862	Kinetic modeling of levulinic acid hydrogenation to Î³-valerolactone in water using a carbon supported Ru catalyst. Applied Catalysis A: General, 2016, 525, 158-167.	4.3	71
863	High molecular weight bio furan-based co-polyesters for food packaging applications: synthesis, characterization and solid-state polymerization. Green Chemistry, 2016, 18, 5142-5150.	9.0	95
864	A Comparative Study on the Reactivity of Various Ketohexoses to Furanics in Methanol. ChemSusChem, 2016, 9, 1827-1834.	6.8	20
865	Highly Efficient Deoxygenation of Aryl Ketones to Arylalkanes Catalyzed by Dioxidomolybdenum Complexes. European Journal of Organic Chemistry, 2016, 2016, 3109-3112.	2.4	25
866	Influence of the starch structure in the synthesis and the yield of levulinic acid. Starch/Staerke, 2016, 68, 943-952.	2.1	3
867	Biotypes analysis of Corynebacterium glutamicum growing in dicarboxylic acids demonstrates the existence of industrially-relevant intra-species variations. Journal of Proteomics, 2016, 146, 172-183.	2.4	2
868	Critical Influence of 5â€Hydroxymethylfurfural Aging and Decomposition on the Utility of Biomass Conversion in Organic Synthesis. Angewandte Chemie, 2016, 128, 8478-8482.	2.0	49
869	Dehydration of Xylose to Furfural in Alcohol Media in the Presence of Solid Acid Catalysts. ChemCatChem, 2016, 8, 2089-2099.	3.7	44
870	A Î²-Alanine Catabolism Pathway Containing a Highly Promiscuous Ï‰-Transaminase in the 12-Aminododecanate-Degrading Pseudomonas sp. Strain AAC. Applied and Environmental Microbiology, 2016, 82, 3846-3856.	3.1	21
871	Earlyâ€stage evaluation of biorefinery processing pathways using process network flux analysis. AIChE Journal, 2016, 62, 3096-3108.	3.6	34
872	Combining Metabolic Engineering and Electrocatalysis: Application to the Production of Polyamides from Sugar. Angewandte Chemie - International Edition, 2016, 55, 2368-2373.	13.8	112
873	Biomass. World Scientific Series in Current Energy Issues, 2016, , 171-204.	0.1	0

#	Article	IF	Citations
874	High D(âˆ’) lactic acid levels production by Sporolactobacillus nakayamae and an efficient purification. Annals of Microbiology, 2016, 66, 1367-1376.	2.6	9
875	Reactive force field simulation studies on the combustion behavior of n -octanol. Fuel Processing Technology, 2016, 152, 132-139.	7.2	38
876	Selective Conversion of 5â€Hydroxymethylfuraldehyde Using Cp*Ir Catalysts in Aqueous Formate Buffer Solution. ChemSusChem, 2016, 9, 1209-1215.	6.8	41
877	Biotechnological production of ethanol: Biochemistry, processes and technologies. Engineering in Life Sciences, 2016, 16, 307-329.	3.6	115
879	Towards Truly Sustainable Polymers: A Metalâ€Free Recyclable Polyester from Biorenewable Nonâ€Strained Î³â€Butyrolactone. Angewandte Chemie - International Edition, 2016, 55, 4188-4193.	13.8	217
880	Research progress on bioâ€based thermosetting resins. Polymer International, 2016, 65, 164-173.	3.1	173
881	Critical Influence of 5â€Hydroxymethylfurfural Aging and Decomposition on the Utility of Biomass Conversion in Organic Synthesis. Angewandte Chemie - International Edition, 2016, 55, 8338-8342.	13.8	160
882	Extraction of phenolic compounds and succinic acid production from spent sulphite liquor. Journal of Chemical Technology and Biotechnology, 2016, 91, 2751-2760.	3.2	29
883	Cascade Synthesis of Fiveâ€Membered Lactones using Biomassâ€Derived Sugars as Carbon Nucleophiles. Chemistry - an Asian Journal, 2016, 11, 1731-1737.	3.3	8
884	Synthesis of Bis(hydroxylmethylfurfuryl)amine Monomers from 5â€Hydroxymethylfurfural. ChemSusChem, 2016, 9, 1255-1258.	6.8	37
885	The Effect of Functional Groups in Bioâ€Derived Fuel Candidates. ChemSusChem, 2016, 9, 922-931.	6.8	47
886	Synthesis of 2â€Butanol by Selective Hydrogenolysis of 1,4â€Anhydroerythritol over Molybdenum Oxideâ€Modified Rhodiumâ€Supported Silica. ChemSusChem, 2016, 9, 1680-1688.	6.8	51
889	Proteomic and metabolomic analyses reveal metabolic responses to 3-hydroxypropionic acid synthesized internally in cyanobacterium Synechocystis sp. PCC 6803. Biotechnology for Biofuels, 2016, 9, 209.	6.2	30
890	Fractionation for further conversion: from raw corn stover to lactic acid. Scientific Reports, 2016, 6, 38623.	3.3	50
891	Synthesis of Acetoneâ€Derived C₆, C₉, and C₁₂ Carbon Scaffolds for Chemical and Fuel Applications. ChemSusChem, 2016, 9, 3382-3386.	6.8	16
892	Biorefinery lignosulfonates as a dispersant for coal water slurry. Sustainable Chemical Processes, 2016, 4, .	2.3	9
893	Sustainable polymers from renewable resources. Nature, 2016, 540, 354-362.	27.8	1,902
895	Catalytic Isomerization of Biomassâ€Derived Aldoses: A Review. ChemSusChem, 2016, 9, 547-561.	6.8	227

#	Article	IF	Citations
896	Contracted but effective: production of enantiopure 2,3-butanediol by thermophilic and GRAS Bacillus licheniformis. Green Chemistry, 2016, 18, 4693-4703.	9.0	66
897	Process synthesis and analysis for catalytic conversion of lignocellulosic biomass to fuels: Separate conversion of cellulose and hemicellulose using 2-sec-butylphenol (SBP) solvent. Applied Energy, 2016, 171, 483-490.	10.1	24
898	Efficient and selective conversion of glycidol to 1,2-propanediol over Pd/C catalyst. Catalysis Communications, 2016, 77, 98-102.	3.3	20
899	Influence of electrolytes on liquid-liquid equilibria of water/1-butanol and on the partitioning of 5-hydroxymethylfurfural in water/1-butanol. Fluid Phase Equilibria, 2016, 428, 102-111.	2.5	39
900	Nanomaterials for the Production of Biofuels. Nanoscience and Technology, 2016, , 559-582.	1.5	6
901	Optimization of Co/Mn/Br-Catalyzed Oxidation of 5-Hydroxymethylfurfural to Enhance 2,5-Furandicarboxylic Acid Yield and Minimize Substrate Burning. ACS Sustainable Chemistry and Engineering, 2016, 4, 3659-3668.	6.7	80
902	Soybean carbohydrate as fermentation feedstock for production of biofuels and value-added chemicals. Process Biochemistry, 2016, 51, 1046-1057.	3.7	66
903	Economic Risk Assessment of Early Stage Designs for Glycerol Valorization in Biorefinery Concepts. Industrial & Engineering Chemistry Research, 2016, 55, 6801-6814.	3.7	37
904	Conversion of saccharides into levulinic acid and 5-hydroxymethylfurfural over WO₃â€"Ta₂O₅catalysts. RSC Advances, 2016, 6, 49760-49763.	3.6	12
905	Sorbitol dehydration into isosorbide over a cellulose-derived solid acid catalyst. RSC Advances, 2016, 6, 49528-49536.	3.6	36
906	Glycerol oxidehydration to pyruvaldehyde over silver-based catalysts for improved lactic acid production. Green Chemistry, 2016, 18, 4682-4692.	9.0	32
907	Acrylic Platform from Renewable Resources via a Paradigm Shift in Lactide Polymerization. ACS Macro Letters, 2016, 5, 544-546.	4.8	10
908	Oxidative Furan-to-Indole Rearrangement. Synthesis of 2-(2-Acylvinyl)indoles and Flinderole C Analogues. Organic Letters, 2016, 18, 2192-2195.	4.6	28
909	Itaconic acid â€" a versatile building block for renewable polyesters with enhanced functionality. Green Chemistry, 2016, 18, 2922-2934.	9.0	227
910	Electrochemical reductive biomass conversion: direct conversion of 5-hydroxymethylfurfural (HMF) to 2,5-hexanedione (HD) via reductive ring-opening. Green Chemistry, 2016, 18, 2956-2960.	9.0	94
911	Furfural production from birch hemicelluloses by two-step processing: a potential technology for biorefineries. Holzforschung, 2016, 70, 901-910.	1.9	30
912	Aqueous phase hydrogenation of levulinic acid using a porous catalytic membrane reactor. Catalysis Today, 2016, 268, 19-28.	4.4	24
913	A non-destructive, rapid and inexpensive methodology based on digital images for the classification of natural tannin extracts. RSC Advances, 2016, 6, 32358-32364.	3.6	10

#	Article	IF	Citations
914	Production of lactic acid from cellulose catalyzed by alumina-supported Er2O3 catalysts. Research on Chemical Intermediates, 2016, 42, 7199-7211.	2.7	9
915	Biological processes for advancing lignocellulosic waste biorefinery by advocating circular economy. Bioresource Technology, 2016, 215, 13-20.	9.6	197
916	Actinobacillus succinogenes : Advances on succinic acid production and prospects for development of integrated biorefineries. Biochemical Engineering Journal, 2016, 112, 285-303.	3.6	138
917	Optimal conditions for hemicelluloses extraction from Eucalyptus globulus wood: hydrothermal treatment in a semi-continuous reactor. Fuel Processing Technology, 2016, 148, 350-360.	7.2	36
918	CuNi@C catalysts with high activity derived from metalâ€“organic frameworks precursor for conversion of furfural to cyclopentanone. Chemical Engineering Journal, 2016, 299, 104-111.	12.7	125
919	Pervaporation-assisted catalytic conversion of xylose to furfural. Green Chemistry, 2016, 18, 4073-4085.	9.0	28
920	Acid catalyzed condensation of levulinic acid with glyoxylic acid: synthesis of 1-methyl-2,8-dioxabicyclo[3.3.0]oct-4-ene-3,7-dione. Tetrahedron Letters, 2016, 57, 2598-2600.	1.4	14
921	The Techno-Economic Basis for Coproduct Manufacturing To Enable Hydrocarbon Fuel Production from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2016, 4, 3196-3211.	6.7	121
922	One-pot catalytic conversion of carbohydrates into furfural and 5-hydroxymethylfurfural. Catalysis Science and Technology, 2016, 6, 3694-3712.	4.1	172
923	Differences in Leaching Characteristics of Mg and Ca from Various Biomass Components of Mallee Tree in Hot-Compressed Water. Energy & Fuels, 2016, 30, 7851-7857.	5.1	5
924	Controlled deposition of Pt nanoparticles on Fe₃O₄@carbon microspheres for efficient oxidation of 5-hydroxymethylfurfural. RSC Advances, 2016, 6, 51229-51237.	3.6	45
925	Coaggregation of mineral filler particles and starch granules as a basis for improving filler-fiber interaction in paper production. Carbohydrate Polymers, 2016, 149, 20-27.	10.2	20
926	Enhanced performance of glycerol to aromatics over Sn-containing HZSM-5 zeolites. RSC Advances, 2016, 6, 42984-42993.	3.6	45
927	Experimental and modeling studies on the acid-catalyzed conversion of inulin to 5-hydroxymethylfurfural in water. Chemical Engineering Research and Design, 2016, 109, 65-75.	5.6	14
928	Active Cp*Iridium(III) Complex with <i>ortho</i>-Hydroxyl Group Functionalized Bipyridine Ligand Containing an Electron-Donating Group for the Production of Diketone from 5-HMF. ACS Catalysis, 2016, 6, 3784-3788.	11.2	48
929	Promotion effects of Pd on tungsten carbide catalysts: physiochemical properties and cellulose conversion performance. RSC Advances, 2016, 6, 87756-87766.	3.6	7
930	Bulk and composite catalysts combining BEA topology and mesoporosity for the valorisation of furfural. Catalysis Science and Technology, 2016, 6, 7812-7829.	4.1	23
931	CO₂-Catalysed conversion of carbohydrates to 5-hydroxymethyl furfural. Green Chemistry, 2016, 18, 6305-6310.	9.0	26

#	Article	IF	Citations
932	Production of 5â€hydroxymethyl furfural and levulinic acid from lignocellulose in aqueous solution and different solvents. Biofuels, Bioproducts and Biorefining, 2016, 10, 917-931.	3.7	40
933	Chlorine-Free Biomass Processing: Enzymatic Alternatives for Bleaching and Hydrolysis of Lignocellulosic Materials. , 2016, , 241-268.		0
934	The pentose phosphate pathway leads to enhanced succinic acid flux in biofilms of wild-type Actinobacillus succinogenes. Applied Microbiology and Biotechnology, 2016, 100, 9641-9652.	3.6	11
935	Electrochemical reductive amination of furfural-based biomass intermediates. Green Chemistry, 2016, 18, 5412-5417.	9.0	48
936	Obtaining a high value branched bio-alkane from biomass-derived levulinic acid using RANEYÂ® as hydrodeoxygenation catalyst. RSC Advances, 2016, 6, 93956-93962.	3.6	20
937	Heterogeneously Catalyzed Hydrothermal Processing of C₅â€“C₆ Sugars. Chemical Reviews, 2016, 116, 12328-12368.	47.7	253
938	Renewable Unsaturated Polyesters from Muconic Acid. ACS Sustainable Chemistry and Engineering, 2016, 4, 6867-6876.	6.7	90
939	Selective Hydrodeoxygenation of 2-Furancarboxylic Acid to Valeric Acid over Molybdenum-Oxide-Modified Platinum Catalyst. ACS Sustainable Chemistry and Engineering, 2016, 4, 6253-6257.	6.7	43
940	Allylation of a lignin model phenol: a highly selective reaction under benign conditions towards a new thermoset resin platform. RSC Advances, 2016, 6, 96281-96288.	3.6	32
941	Synthesis of Terephthalic Acid by pâ€Cymene Oxidation using Oxygen: Toward a More Sustainable Production of Bioâ€Polyethylene Terephthalate. ChemSusChem, 2016, 9, 3102-3112.	6.8	40
942	Efficient conversion of chitin biomass into 5-hydroxymethylfurfural over metal salts catalysts in dimethyl sulfoxide -water mixture under hydrothermal conditions. Polymer Degradation and Stability, 2016, 134, 105-114.	5.8	39
944	The Reaction Pathway of Cellulose Pyrolysis to a Multifunctional Chiral Building Block: The Role of Water Unveiled by a DFT Computational Investigation. ChemPhysChem, 2016, 17, 3948-3953.	2.1	13
945	Ionic-Liquid-Based Aqueous Biphasic Systems. Green Chemistry and Sustainable Technology, 2016, , .	0.7	22
946	Hydrothermal Decomposition of Carbohydrates to Levulinic Acid with Catalysis by Ionic Liquids. Industrial & Engineering Chemistry Research, 2016, 55, 11044-11051.	3.7	37
947	From mannan to bioethanol: cell surface co-display of Î²-mannanase and Î²-mannosidase on yeast Saccharomyces cerevisiae. Biotechnology for Biofuels, 2016, 9, 188.	6.2	27
948	ABS Constituted by Ionic Liquids and Carbohydrates. Green Chemistry and Sustainable Technology, 2016, , 37-60.	0.7	2
949	Enhancement of indoles production and catalyst stability in thermo-catalytic conversion and ammonization of furfural with NH3 and N2 environments. Journal of Analytical and Applied Pyrolysis, 2016, 121, 258-266.	5.5	16
950	Green Solvents in Biomass Processing. ACS Sustainable Chemistry and Engineering, 2016, 4, 5821-5837.	6.7	123

#	Article	IF	Citations
951	The role of budABC on 1,3-propanediol and 2,3-butanediol production from glycerol in Klebsiella pneumoniae CICIM B0057. Bioengineered, 2016, 7, 439-444.	3.2	6
952	The Role of the Hydrogen Source on the Selective Production of Î³â€Valerolactone and 2â€Methyltetrahydrofuran from Levulinic Acid. ChemSusChem, 2016, 9, 2488-2495.	6.8	56
953	Conversion of n- butanol to gasoline range hydrocarbons, butylenes and aromatics. Applied Catalysis A: General, 2016, 526, 28-36.	4.3	25
954	Hydrogen-transfer conversion of furfural into levulinate esters as potential biofuel feedstock. Journal of Energy Chemistry, 2016, 25, 888-894.	12.9	22
955	Green oxidation of bio-lactic acid with H2O2 into tartronic acid under UV irradiation. RSC Advances, 2016, 6, 41007-41010.	3.6	4
956	Biotechnology is storming the heights of petrochemistry. Kinetics and Catalysis, 2016, 57, 405-421.	1.0	12
957	Dehydration of Glucose to 5â€Hydroxymethylfurfural Using Nbâ€doped Tungstite. ChemSusChem, 2016, 9, 2421-2429.	6.8	64
958	Organocatalytic Cross-Coupling of Biofuranics to Multifunctional Difuranic C₁₁ Building Blocks. ACS Sustainable Chemistry and Engineering, 2016, 4, 4927-4936.	6.7	23
959	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. Bioresource Technology, 2016, 219, 338-347.	9.6	98
960	Recyclable montmorillonite-supported thiazolium ionic liquids for high-yielding and solvent-free upgrading of furfural and 5-hydroxymethylfurfural to C₁₀ and C₁₂ furoins. RSC Advances, 2016, 6, 76707-76715.	3.6	17
963	Nanoscale Pd-based catalysts for selective oxidation of glycerol with molecular oxygen: Structureâ€"activity correlations. Polyhedron, 2016, 120, 124-133.	2.2	23
964	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie, 2016, 128, 11267-11271.	2.0	31
965	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2016, 55, 11101-11105.	13.8	99
967	Bioâ€"based Pentenoic Acids as Intermediates to Higher Valueâ€Added Monoâ€•and Dicarboxylic Acids. ChemistrySelect, 2016, 1, 539-544.	1.5	27
968	Not Just Lumberâ€"Using Wood in the Sustainable Future of Materials, Chemicals, and Fuels. Jom, 2016, 68, 2395-2404.	1.9	40
969	Fully biobased multiblock copolymers of furan-aromatic polyester and dimerized fatty acid: Synthesis and characterization. Polymer, 2016, 99, 503-512.	3.8	49
970	Synthesis and properties of new crosslinked polyurethane elastomers based on isosorbide. European Polymer Journal, 2016, 83, 161-172.	5.4	47
971	Penetrant transport in semicrystalline poly(ethylene furanoate). Polymer, 2016, 98, 305-310.	3.8	48

#	Article	IF	Citations
972	Characterization and application of bioactive compounds in oil palm mesocarp fiber superheated steam condensate as an antifungal agent. RSC Advances, 2016, 6, 84672-84683.	3.6	16
973	Highly selective doped PtMgO nano-sheets for renewable hydrogen production from APR of glycerol. International Journal of Hydrogen Energy, 2016, 41, 17390-17398.	7.1	24
974	Reaction Design for the Compartmented Combination of Heterogeneous and Enzyme Catalysis. ACS Catalysis, 2016, 6, 6329-6334.	11.2	45
975	Critical design of heterogeneous catalysts for biomass valorization: current thrust and emerging prospects. Catalysis Science and Technology, 2016, 6, 7364-7385.	4.1	111
976	On the Structure Sensitivity of Formic Acid Decomposition on Cu Catalysts. Topics in Catalysis, 2016, 59, 1580-1588.	2.8	37
977	Proteomic analysis of the response of Î±-ketoglutarate-producer Yarrowia lipolytica WSH-Z06 to environmental pH stimuli. Applied Microbiology and Biotechnology, 2016, 100, 8829-8841.	3.6	8
978	Nanoscaled Metal Fluorides in Heterogeneous Catalysis. , 2016, , 133-191.		8
979	Glycidol: an Hydroxylâ€Containing Epoxide Playing the Double Role of Substrate and Catalyst for CO₂ Cycloaddition Reactions. ChemSusChem, 2016, 9, 3457-3464.	6.8	55
980	Malic and Succinic Acid. , 2016, , 159-179.		5
981	Sugar-Derived Industrially Important C6 Platform Chemicals. , 2016, , 229-248.		2
982	Production of Drop-In and Novel Bio-Based Platform Chemicals. , 2016, , 249-283.		3
983	Biorefinery and Possible Negative Impacts on the Food Market. , 2016, , 323-331.		1
984	Algal Biorefinery for High-Value Platform Chemicals. , 2016, , 333-360.		3
985	High yield production of HMF from carbohydrates over silicaâ€"alumina composite catalysts. Catalysis Science and Technology, 2016, 6, 7586-7596.	4.1	56
986	Modification of poly(ethylene 2,5-furandicarboxylate) with 1,4-cyclohexanedimethylene: Influence of composition on mechanical and barrier properties. Polymer, 2016, 103, 1-8.	3.8	138
987	Effect of Metals on the Hydrogenolysis of Glycerol to Higher Value Sustainable and Green Chemicals Using a Supported HSiW Catalyst. Organic Process Research and Development, 2016, 20, 1774-1780.	2.7	23
988	Transfer Hydrogenation of 4-Propylphenol Using Ethanol and Water over Charcoal-supported Palladium Catalyst. Chemistry Letters, 2016, 45, 643-645.	1.3	6
989	Production of cellulosic ethanol from steam-exploded Eucalyptus urograndis and sugarcane bagasse at high total solids and low enzyme loadings. Sustainable Chemical Processes, 2016, 4, .	2.3	18

#	Article	IF	Citations
990	Semi-bio-based aromatic polyamides from 2,5-furandicarboxylic acid: toward high-performance polymers from renewable resources. RSC Advances, 2016, 6, 87013-87020.	3.6	55
991	Production of Î³-valerolactone from furfural by a single-step process using Sn-Al-Beta zeolites: Optimizing the catalyst acid properties and process conditions. Journal of Industrial and Engineering Chemistry, 2016, 40, 62-71.	5.8	110
992	A practical and efficient synthesis of methyl levulinate from cellulosic biomass catalyzed by an aluminum-based mixed acid catalyst system. RSC Advances, 2016, 6, 65119-65124.	3.6	22
993	A molecular dynamics study of the effect of glycosidic linkage type in the hemicellulose backbone on the molecular chain flexibility. Plant Journal, 2016, 88, 56-70.	5.7	58
994	Chemo- and Regioselective Functionalization of Polyols through Catalytic C(sp³)â€"C(sp³) Kumada-Type Coupling of Cyclic Sulfate Esters. Organic Letters, 2016, 18, 3718-3721.	4.6	11
995	Across the Board: Michael North. ChemSusChem, 2016, 9, 2012-2014.	6.8	0
996	Sustainable Aromatic Copolyesters via Ring Opening Polymerization: Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 507 Td (2,5-fu 4965-4973.	6.7	55
997	Biocatalysis and Biomass Conversion in Alternative Reaction Media. Chemistry - A European Journal, 2016, 22, 12984-12999.	3.3	149
998	Oneâ€Pot Conversion of Carbohydrates into Furan Derivatives via Furfural and 5â€Hydroxylmethylfurfural as Intermediates. ChemSusChem, 2016, 9, 2015-2036.	6.8	146
999	Chemicals from Biomass: Synthesis of Biologically Active Furanochalcones by Claisenâ€"Schmidt Condensation of Biomass-Derived 5-hydroxymethylfurfural (HMF) with Acetophenones. Topics in Catalysis, 2016, 59, 1257-1265.	2.8	19
1000	Improving succinic acid production by Actinobacillus succinogenes from raw industrial carob pods. Bioresource Technology, 2016, 218, 491-497.	9.6	51
1001	Synthesis of potentially biobased copolyesters based on adipic acid and butanediols: Kinetic study between 1,4- and 2,3-butanediol and their influence on crystallization and thermal properties. Polymer, 2016, 99, 204-213.	3.8	44
1004	The Conversion of Starch and Sugars into Branched C₁₀ and C₁₁ Hydrocarbons. ChemSusChem, 2016, 9, 2298-2300.	6.8	18
1005	Synthesis and kinetic modeling of biomassâ€derived renewable polyesters. Journal of Polymer Science Part A, 2016, 54, 2876-2887.	2.3	27
1006	Acid Catalyzed Competitive Esterification and Ketalization of Levulinic Acid with 1,2 and 1,3-Diols: The Effect of Heterogeneous and Homogeneous Catalysts. Catalysis Letters, 2016, 146, 1819-1824.	2.6	21
1007	Integrating Electrocatalytic 5-Hydroxymethylfurfural Oxidation and Hydrogen Production via Coâ€"P-Derived Electrocatalysts. ACS Energy Letters, 2016, 1, 386-390.	17.4	272
1008	Magnetic ZSM-5 zeolite: a selective catalyst for the valorization of furfuryl alcohol to Î³-valerolactone, alkyl levulinates or levulinic acid. Green Chemistry, 2016, 18, 5586-5593.	9.0	59
1009	Reaction Kinetics Based Optimization of Furfural Production from Corncob Using a Fully Recyclable Solid Acid. Industrial & Engineering Chemistry Research, 2016, 55, 11253-11259.	3.7	36

#	Article	IF	Citations
1010	Two-Dimensional ITQ-2 Zeolite for Biomass Transformation: Synthesis of Alkyl 5-Benzyl-2-furoates as Intermediates for Fine Chemicals. ACS Sustainable Chemistry and Engineering, 2016, 4, 6152-6159.	6.7	27
1011	Catalytic Conversion of Carbohydrates to Levulinate Ester over Heteropolyanionâ€Based Ionic Liquids. ChemSusChem, 2016, 9, 3307-3316.	6.8	46
1012	High concentration levulinic acid production from corn stover. RSC Advances, 2016, 6, 111616-111621.	3.6	19
1013	Biosynthesis of polyesters and polyamide building blocks using microbial fermentation and biotransformation. Reviews in Environmental Science and Biotechnology, 2016, 15, 639-663.	8.1	65
1014	Polyethylenimines as Homogeneous and Heterogeneous Catalysts for Glucose Isomerization. ACS Sustainable Chemistry and Engineering, 2016, 4, 6951-6961.	6.7	31
1015	Solely Biomassâ€Derived Polyethylene Terephthalate (PET): Conversion of Bioâ€based Isoprene and Acrolein to <i>p</i>â€Xylene and Terephthalic Acid. ChemistrySelect, 2016, 1, 5538-5541.	1.5	16
1017	Competitive Adsorption of Substrate and Solvent in Snâ€Beta Zeolite During Sugar Isomerization. ChemSusChem, 2016, 9, 3145-3149.	6.8	36
1018	Analytical Strategies Using Chromatographic Methodologies to Analyze Lignocellulosic Feedstocks and their Value-Added Compounds in Biorefinery Processes. , 2016, , 197-234.		2
1019	Palladium catalyzed hydrogenation of biomass derived halogenated furfurals. RSC Advances, 2016, 6, 103149-103159.	3.6	5
1020	An intensified reaction technology for high levulinic acid concentration from lignocellulosic biomass. Biomass and Bioenergy, 2016, 95, 214-220.	5.7	46
1021	Microbial Enzymes in Bioconversions of Biomass. Biofuel and Biorefinery Technologies, 2016, , .	0.3	8
1022	Recent advances in aerobic oxidation with ruthenium catalysts. Tetrahedron Letters, 2016, 57, 5551-5559.	1.4	26
1024	Applying pathway engineering to enhance production of alpha-ketoglutarate in Yarrowia lipolytica. Applied Microbiology and Biotechnology, 2016, 100, 9875-9884.	3.6	18
1025	Multicomponent Coupling Approach to Cross-Conjugated Polymers from Vanillin-Based Monomers. ACS Sustainable Chemistry and Engineering, 2016, 4, 6263-6267.	6.7	33
1026	Role of surface tryptophan for peroxidase oxidation of nonphenolic lignin. Biotechnology for Biofuels, 2016, 9, 198.	6.2	37
1027	Fungal Aryl-Alcohol Oxidase in Lignocellulose Degradation and Bioconversion. Biofuel and Biorefinery Technologies, 2016, , 301-322.	0.3	9
1028	Renewable building blocks for sustainable polyesters: new biotechnological routes for greener plastics. Polymer International, 2016, 65, 861-871.	3.1	127
1030	Catalytic Hydrotreatment of Humins in Mixtures of Formic Acid/2â€Propanol with Supported Ruthenium Catalysts. ChemSusChem, 2016, 9, 951-961.	6.8	40

#	Article	IF	Citations
1031	Direct Hydrogenation of Biobased Carboxylic Acids Mediated by a Nitrogenâ€centered Tridentate Phosphine Ligand. ChemSusChem, 2016, 9, 177-180.	6.8	29
1032	Catalytic Transfer Hydrogenation of Furfural to Furfuryl Alcohol over Nitrogenâ€Doped Carbonâ€Supported Iron Catalysts. ChemSusChem, 2016, 9, 1339-1347.	6.8	144
1033	Recyclable Earthâ€Abundant Metal Nanoparticle Catalysts for Selective Transfer Hydrogenation of Levulinic Acid to Produce <i>Î³</i>â€Valerolactone. ChemSusChem, 2016, 9, 181-185.	6.8	33
1034	On thermal stability and catalytic reactivity of Zr-based metalâ€“organic framework (UiO-67) encapsulated Pt catalysts. Journal of Catalysis, 2016, 340, 85-94.	6.2	53
1035	Optimization and Evaluation of Sugars and Chemicals Production from Green Macro-algae Enteromorpha intestinalis. Bioenergy Research, 2016, 9, 1155-1166.	3.9	16
1036	Catalytic Conversion of Fructose and 5-Hydroxymethylfurfural into 2,5-Diformylfuran over SBA-15 Supported Ruthenium Catalysts. Energy & Fuels, 2016, 30, 5885-5892.	5.1	42
1037	Sophorolipid Amine Oxide Production by a Combination of Fermentation Scale-up and Chemical Modification. Industrial & Engineering Chemistry Research, 2016, 55, 7273-7281.	3.7	20
1038	Single Pot Transfer Hydrogenation and Aldolization of Furfural Over Metal Oxide Catalysts. Catalysis Letters, 2016, 146, 1611-1619.	2.6	42
1039	Total Chain Integration of sustainable biorefinery systems. Applied Energy, 2016, 184, 1432-1446.	10.1	86
1040	Acceptorless dehydrogenative coupling of alcohols catalysed by ruthenium PNP complexes: Influence of catalyst structure and of hydrogen mass transfer. Journal of Catalysis, 2016, 340, 331-343.	6.2	46
1041	Renewable-based poly((ether)ester)s from 2,5-furandicarboxylic acid. Polymer, 2016, 98, 129-135.	3.8	58
1042	Hydrogenation of oxalic acid using light-assisted water electrolysis for the production of an alcoholic compound. Green Chemistry, 2016, 18, 3700-3706.	9.0	26
1043	Succinic acid production by <i>Actinobacillus succinogenes</i> from batch fermentation of mixed sugars. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1117-1130.	3.0	42
1044	Synthesis of Novel Renewable Polyesters and Polyamides with Olefin Metathesis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5943-5952.	6.7	19
1045	Improved sugar-free succinate production by Synechocystis sp. PCC 6803 following identification of the limiting steps in glycogen catabolism. Metabolic Engineering Communications, 2016, 3, 130-141.	3.6	59
1046	Efficient mild oxidation of 5-hydroxymethylfurfural to 5-hydroxymethyl-2(5H)-furanone, a versatile chemical intermediate. Research on Chemical Intermediates, 2016, 42, 8253-8260.	2.7	6
1047	Enhanced production and physicochemical properties of thermostable crude cellulase from Sporothrix carnis grown on corn cob. Biocatalysis and Agricultural Biotechnology, 2016, 7, 110-117.	3.1	33
1048	A mathematical programming formulation for biorefineries technology selection. Biochemical Engineering Journal, 2016, 116, 135-145.	3.6	10

#	Article	IF	Citations
1049	Electrochemical Conversion of Muconic Acid to Biobased Diacid Monomers. ACS Sustainable Chemistry and Engineering, 2016, 4, 3575-3585.	6.7	81
1050	Efficient malic acid production from glycerol with Ustilago trichophora TZ1. Biotechnology for Biofuels, 2016, 9, 67.	6.2	58
1051	High yield 5-(hydroxymethyl)furfural production from biomass sugars under facile reaction conditions: a hybrid enzyme- and chemo-catalytic technology. Green Chemistry, 2016, 18, 4990-4998.	9.0	34
1052	Towards more accurate prediction of activation energies for polyalcohol dehydrogenation on transition metal catalysts in water. Catalysis Science and Technology, 2016, 6, 6615-6624.	4.1	31
1053	Biocatalytic Upgrading of 5-Hydroxymethylfurfural (HMF) with Levulinic Acid to HMF Levulinate in Biomass-Derived Solvents. ACS Sustainable Chemistry and Engineering, 2016, 4, 4050-4054.	6.7	50
1054	Succinic acid production on xylose-enriched biorefinery streams by Actinobacillus succinogenes in batch fermentation. Biotechnology for Biofuels, 2016, 9, 28.	6.2	120
1055	A framework for techno-economic & environmental sustainability analysis by risk assessment for conceptual process evaluation. Biochemical Engineering Journal, 2016, 116, 146-156.	3.6	34
1056	Levulinic Acid Biorefineries: New Challenges for Efficient Utilization of Biomass. ChemSusChem, 2016, 9, 562-582.	6.8	520
1057	Catalytic and mechanistic insights into the production of ethyl levulinate from biorenewable feedstocks. Green Chemistry, 2016, 18, 4804-4823.	9.0	204
1058	Combining Metabolic Engineering and Electrocatalysis: Application to the Production of Polyamides from Sugar. Angewandte Chemie, 2016, 128, 2414-2419.	2.0	24
1059	Towards Truly Sustainable Polymers: A Metalâ€Free Recyclable Polyester from Biorenewable Nonâ€Strained Î³â€Butyrolactone. Angewandte Chemie, 2016, 128, 4260-4265.	2.0	52
1060	From models to lignin: Transition metal catalysis for selective bond cleavage reactions. Coordination Chemistry Reviews, 2016, 306, 510-532.	18.8	221
1061	Hydrogenation of biomassâ€derived levulinic acid to Î³â€valerolactone over copper catalysts supported on <scp>ZrO₂</scp>. Journal of Chemical Technology and Biotechnology, 2016, 91, 769-776.	3.2	37
1062	Pilot-scale demonstration of SPORL for bioconversion of lodgepole pine to bioethanol and lignosulfonate. Holzforschung, 2016, 70, 21-30.	1.9	21
1063	Coupling chemical and biological catalysis: a flexible paradigm for producing biobased chemicals. Current Opinion in Biotechnology, 2016, 38, 54-62.	6.6	74
1064	The Closure of the Cycle: Enzymatic Synthesis and Functionalization of Bio-Based Polyesters. Trends in Biotechnology, 2016, 34, 316-328.	9.3	107
1065	Hydrogenative cyclization of levulinic acid into Î³-valerolactone by photocatalytic intermolecular hydrogen transfer. Green Chemistry, 2016, 18, 2296-2301.	9.0	22
1066	Efficient conversion of glucose to 5-hydroxymethylfurfural using bifunctional partially hydroxylated AlF₃. RSC Advances, 2016, 6, 12782-12787.	3.6	20

#	Article	IF	Citations
1067	Fungal biodiversity to biotechnology. Applied Microbiology and Biotechnology, 2016, 100, 2567-2577.	3.6	52
1068	Formation of 1,3-butadiene from ethanol in a two-step process using modified zeolite-Î² catalysts. Applied Catalysis A: General, 2016, 514, 192-202.	4.3	47
1069	Lewis-acid-promoted catalytic cascade conversion of glycerol to lactic acid by polyoxometalates. Chemical Communications, 2016, 52, 3332-3335.	4.1	39
1070	Pretreatment combining ultrasound and sodium percarbonate under mild conditions for efficient degradation of corn stover. Ultrasonics Sonochemistry, 2016, 29, 455-460.	8.2	61
1071	Technologies for the utilisation of biogenic waste in the bioeconomy. Food Chemistry, 2016, 198, 2-11.	8.2	45
1072	A rapid and non-invasive method for the classification of natural tannin extracts by near-infrared spectroscopy and PLS-DA. Analytical Methods, 2016, 8, 644-649.	2.7	38
1073	Green chemistry, catalysis and valorization of waste biomass. Journal of Molecular Catalysis A, 2016, 422, 3-12.	4.8	150
1074	Hydrophilic sulfonic acid-functionalized micro-bead silica for dehydration of sorbitol to isosorbide. RSC Advances, 2016, 6, 13514-13521.	3.6	34
1075	Catalyst design for biorefining. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150081.	3.4	35
1076	Sucrose and<i>Saccharomyces cerevisiae</i>: a relationship most sweet. FEMS Yeast Research, 2016, 16, fov107.	2.3	99
1077	Green biorefinery â€“ Industrial implementation. Food Chemistry, 2016, 197, 1341-1345.	8.2	69
1078	Selective p-xylene production from biomass-derived dimethylfuran and ethylene over zeolite beta nanosponge catalysts. Applied Catalysis B: Environmental, 2016, 185, 100-109.	20.2	72
1079	Biorefinery Alternatives. Green Energy and Technology, 2016, , 53-132.	0.6	2
1080	Catalytic applications of alkali-functionalized carbon nanospheres and their supported Pd nanoparticles. Applied Catalysis B: Environmental, 2016, 184, 104-118.	20.2	34
1081	Selective conversion of sorbitol to glycols and stability of nickelâ€“ruthenium supported on calcium hydroxide catalysts. Applied Catalysis B: Environmental, 2016, 185, 141-149.	20.2	32
1082	Conversion of Levulinic Acid to Î³-Valerolactone over Few-Layer Graphene-Supported Ruthenium Catalysts. ACS Catalysis, 2016, 6, 593-599.	11.2	145
1083	Paradigms in Green Chemistry and Technology. Springer Briefs in Molecular Science, 2016, , .	0.1	12
1084	Continuous succinic acid production from xylose by Actinobacillus succinogenes. Bioprocess and Biosystems Engineering, 2016, 39, 233-244.	3.4	38

#	Article	IF	Citations
1085	Valorization of Lactic Acid and Derivatives to Acrylic Acid Derivatives: Review of Mechanistic Studies. Green Chemistry and Sustainable Technology, 2016, , 39-62.	0.7	7
1086	Catalytic transformation of carbohydrates into 5-hydroxymethyl furfural over tin phosphate in a water-containing system. Catalysis Today, 2016, 264, 131-135.	4.4	18
1087	Catalytic conversion of xylose and corn stalk into furfural over carbon solid acid catalyst in Î³-valerolactone. Bioresource Technology, 2016, 209, 108-114.	9.6	127
1088	Perovskite type oxide-supported Ni catalysts for the production of 2,5-dimethylfuran from biomass-derived 5-hydroxymethylfurfural. Green Chemistry, 2016, 18, 3858-3866.	9.0	79
1089	Catalytic transformation of glycerol to 1-propanol by combining zirconium phosphate and supported Ru catalysts. RSC Advances, 2016, 6, 29769-29778.	3.6	36
1090	Anaerobic biorefinery: Current status, challenges, and opportunities. Bioresource Technology, 2016, 215, 304-313.	9.6	166
1091	Effect of the preparation method of supported Au nanoparticles in the liquid phase oxidation of glycerol. Applied Catalysis A: General, 2016, 514, 267-275.	4.3	37
1092	Efficient and Selective Electrochemical and Photoelectrochemical Reduction of 5-Hydroxymethylfurfural to 2,5-Bis(hydroxymethyl)furan using Water as the Hydrogen Source. ACS Catalysis, 2016, 6, 1840-1847.	11.2	147
1093	Valorization of Waste Lipids through Hydrothermal Catalytic Conversion to Liquid Hydrocarbon Fuels with in Situ Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2016, 4, 1775-1784.	6.7	39
1094	Efficient conversion of biomass-derived furfuryl alcohol to levulinate esters over commercial Î±-Fe₂O₃. RSC Advances, 2016, 6, 22174-22178.	3.6	31
1095	GH53 Endo-Beta-1,4-Galactanase from a Newly Isolated Bacillus licheniformis CBMAI 1609 as an Enzymatic Cocktail Supplement for Biomass Saccharification. Applied Biochemistry and Biotechnology, 2016, 179, 415-426.	2.9	11
1096	Enzymatic hydrolysis of poly(ethylene furanoate). Journal of Biotechnology, 2016, 235, 47-53.	3.8	104
1097	Catalysts Loading Effect of Tungsten Oxide Catalytic Furfuryl Alcohol Oligomerization. Materials Today: Proceedings, 2016, 3, 667-671.	1.8	2
1098	Preparation of tanninâ€“formaldehydeâ€“furfural resin with pretreatment of depolymerization of condensed tannin and ring opening of furfural. Journal of Adhesion Science and Technology, 2016, 30, 947-959.	2.6	13
1099	Scaling up of renewable chemicals. Current Opinion in Biotechnology, 2016, 38, 112-122.	6.6	84
1100	Selective dehydrogenation of bioethanol to acetaldehyde over basic USY zeolites. Catalysis Science and Technology, 2016, 6, 2706-2714.	4.1	14
1101	Highly efficient and selective CO₂-adjunctive dehydration of xylose to furfural in aqueous media with THF. Green Chemistry, 2016, 18, 2331-2334.	9.0	50
1102	Microwave-enhanced aqueous biphasic dehydration of carbohydrates to 5-hydroxymethylfurfural. RSC Advances, 2016, 6, 18973-18979.	3.6	61

#	Article	IF	Citations
1103	Ultrahigh <i>T</i>_g Epoxy Thermosets Based on Insertion Polynorbornenes. Macromolecules, 2016, 49, 920-925.	4.8	50
1104	AquivionÂ®â€“carbon composites via hydrothermal carbonization: amphiphilic catalysts for solvent-free biphasic acetalization. Journal of Materials Chemistry A, 2016, 4, 4380-4385.	10.3	32
1105	Structural characterization and pyrolysis behavior of humin by-products from the acid-catalyzed conversion of C6 and C5 carbohydrates. Journal of Analytical and Applied Pyrolysis, 2016, 118, 259-266.	5.5	57
1106	Furan-based co-polyesters with enhanced thermal properties: poly(1,4-butylene-co-1,4-cyclohexanedimethylene-2,5-furandicarboxylic acid). RSC Advances, 2016, 6, 27632-27639.	3.6	40
1107	A â€œtop-downâ€• in silico approach for designing ad hoc bio-based solvents: application to glycerol-derived solvents of nitrocellulose. Green Chemistry, 2016, 18, 3239-3249.	9.0	28
1108	Green Approach toward Sustainable Polymer: Synthesis and Characterization of Poly(myrcene-<i>co</i>-dibutyl itaconate). ACS Sustainable Chemistry and Engineering, 2016, 4, 2129-2141.	6.7	55
1109	cis,cis-Muconic acid: separation and catalysis to bio-adipic acid for nylon-6,6 polymerization. Green Chemistry, 2016, 18, 3397-3413.	9.0	147
1110	Chemocatalysis of sugars to produce lactic acid derivatives on zeolitic imidazolate frameworks. Journal of Catalysis, 2016, 334, 60-67.	6.2	62
1111	Renewable Resources: From Refinery to Bio-refinery. Springer Briefs in Molecular Science, 2016, , 63-76.	0.1	0
1112	Potential and challenges of zeolite chemistry in the catalytic conversion of biomass. Chemical Society Reviews, 2016, 45, 584-611.	38.1	619
1113	Furfural production using ionic liquids: A review. Bioresource Technology, 2016, 202, 181-191.	9.6	219
1114	Process optimization of a multi-product biorefinery: The effect of biomass seasonality. Chemical Engineering Research and Design, 2016, 107, 236-252.	5.6	39
1115	Acid-functionalized mesoporous carbons for the continuous production of 5-hydroxymethylfurfural. Journal of Molecular Catalysis A, 2016, 422, 13-17.	4.8	44
1116	Furfural: a renewable and versatile platform molecule for the synthesis of chemicals and fuels. Energy and Environmental Science, 2016, 9, 1144-1189.	30.8	1,220
1117	Transition-metal catalyzed valorization of lignin: the key to a sustainable carbon-neutral future. Organic and Biomolecular Chemistry, 2016, 14, 1853-1914.	2.8	145
1118	Non-stoichiometric formation of formic and levulinic acids from the hydrolysis of biomass derived hexose carbohydrates. RSC Advances, 2016, 6, 5797-5804.	3.6	78
1119	Optimization of the production of platform chemicals and sugars from the red macroalga, Kappaphycus alvarezii. Algal Research, 2016, 13, 303-310.	4.6	32
1120	Transfer hydrogenation of methyl levulinate into gamma-valerolactone, 1,4-pentanediol, and 1-pentanol over Cuâ€“ZrO2 catalyst under solvothermal conditions. Catalysis Communications, 2016, 76, 50-53.	3.3	30

#	Article	IF	Citations
1121	Synthesis of hydroxymethylfurfural from cellulose using green processes: A promising biochemical and biofuel feedstock. Chemical Engineering Science, 2016, 142, 318-346.	3.8	107
1122	Salt influence on MIBK/water liquidâ€"liquid equilibrium: Measuring and modeling with ePC-SAFT and COSMO-RS. Fluid Phase Equilibria, 2016, 416, 83-93.	2.5	41
1123	Valorization of organic residues for the production of added value chemicals: A contribution to the bio-based economy. Biochemical Engineering Journal, 2016, 116, 3-16.	3.6	84
1124	Insight into catalyst deactivation mechanism and suppression techniques in thermocatalytic deoxygenation of bio-oil over zeolites. Reviews in Chemical Engineering, 2016, 32, .	4.4	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. Bioresource Technology, 2016, 204, 1-8.	9.6	20
1126	Solid acid catalyzed synthesis of furans from carbohydrates. Catalysis Reviews - Science and Engineering, 2016, 58, 36-112.	12.9	111
1127	Chemical Conversion of Biomass to Green Chemicals. , 2016, , 19-49.		10
1128	Chemicals, electricity and fuels from biorefineries processing Brazil×³s sugarcane bagasse: Production recipes and minimum selling prices. Renewable and Sustainable Energy Reviews, 2016, 53, 1443-1458.	16.4	50
1129	New unsaturated copolyesters based on 2,5-furandicarboxylic acid and their crosslinked derivatives. Polymer Chemistry, 2016, 7, 1049-1058.	3.9	60
1130	The Effect of Ag in the Cu/ZrO2 Performance for the Ethanol Conversion. Topics in Catalysis, 2016, 59, 357-365.	2.8	19
1131	Molecular structure, morphology and growth mechanisms and rates of 5-hydroxymethyl furfural (HMF) derived humins. Green Chemistry, 2016, 18, 1983-1993.	9.0	276
1132	Completely recyclable biopolymers with linear and cyclic topologies via ring-opening polymerization of Î³-butyrolactone. Nature Chemistry, 2016, 8, 42-49.	13.6	461
1133	Transesterification of glycerol with dimethyl carbonate over nanocrystalline ordered mesoporous MgOâ€"ZrO2 solid base catalyst. Journal of Porous Materials, 2016, 23, 185-193.	2.6	26
1134	Zeolite Catalysis for Biomass Conversion. Green Chemistry and Sustainable Technology, 2016, , 347-372.	0.7	2
1135	Progress in the Development of Mesoporous Solid Acid and Base Catalysts for Converting Carbohydrates into Platform Chemicals. Green Chemistry and Sustainable Technology, 2016, , 123-169.	0.7	2
1136	Catalytic Oxidation Pathways for the Production of Carboxylic Acids from Biomass. Green Chemistry and Sustainable Technology, 2016, , 171-202.	0.7	1
1137	Zeolites in Sustainable Chemistry. Green Chemistry and Sustainable Technology, 2016, , .	0.7	21
1138	Process design and economics of an aluminium chloride catalysed organosolv process. Biomass Conversion and Biorefinery, 2016, 6, 335-345.	4.6	12

#	Article	IF	Citations
1139	Alternative Monomers Based on Lignocellulose and Their Use for Polymer Production. Chemical Reviews, 2016, 116, 1540-1599.	47.7	580
1140	Butadiene from biomass, a life cycle perspective to address sustainability in the chemical industry. Green Chemistry, 2016, 18, 1625-1638.	9.0	126
1141	N- and S-doped mesoporous carbon as metal-free cathode catalysts for direct biorenewable alcohol fuel cells. Journal of Materials Chemistry A, 2016, 4, 83-95.	10.3	101
1142	Silver supported on hierarchically porous SiO2 and Co3O4 monoliths: Efficient heterogeneous catalyst for oxidation of cyclohexene. Journal of Molecular Catalysis A, 2016, 411, 61-71.	4.8	19
1143	Towards understanding the hydrodeoxygenation pathways of furfuralâ€"acetone aldol condensation products over supported Pt catalysts. Catalysis Science and Technology, 2016, 6, 1829-1841.	4.1	34
1144	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. Green Chemistry, 2016, 18, 342-359.	9.0	254
1145	Design of sulfonated mesoporous silica catalyst for fructose dehydration guided by difructose anhydride intermediate incorporated reaction network. Chemical Engineering Journal, 2016, 283, 778-788.	12.7	34
1146	Aqueous-phase reforming of crude glycerol: effect of impurities on hydrogen production. Catalysis Science and Technology, 2016, 6, 134-143.	4.1	54
1147	Reaction Pathways and Mechanisms in Thermocatalytic Biomass Conversion I. Green Chemistry and Sustainable Technology, 2016, , .	0.7	6
1148	Advances in the Conversion of Short-Chain Carbohydrates: A Mechanistic Insight. Green Chemistry and Sustainable Technology, 2016, , 27-55.	0.7	2
1149	Review on chemically bonded geminis with cationic heads: second-generation interfactants. Research on Chemical Intermediates, 2016, 42, 1913-1928.	2.7	43
1150	Highly dispersed Cu nanoparticles as an efficient catalyst for the synthesis of the biofuel 2-methylfuran. Catalysis Science and Technology, 2016, 6, 767-779.	4.1	92
1151	An effect of cation functionalization on thermophysical properties of ionic liquids and solubility of glucose in them â€" Measurements and PC-SAFT calculations. Journal of Chemical Thermodynamics, 2016, 92, 81-90.	2.0	18
1152	Progress of Polymers from Renewable Resources: Furans, Vegetable Oils, and Polysaccharides. Chemical Reviews, 2016, 116, 1637-1669.	47.7	610
1153	Direct transformation of carbohydrates to the biofuel 5-ethoxymethylfurfural by solid acid catalysts. Green Chemistry, 2016, 18, 726-734.	9.0	151
1154	Synthesis of Nanostructured Molybdenum Carbide as Catalyst for the Hydrogenation of Levulinic Acid to Î³-Valerolactone. Topics in Catalysis, 2016, 59, 148-158.	2.8	27
1155	Carbon supported Pt9Sn1 nanoparticles as an efficient nanocatalyst for glycerol oxidation. Applied Catalysis B: Environmental, 2016, 180, 78-85.	20.2	50
1156	Single stage and countercurrent extraction of 5-hydroxymethylfurfural from aqueous phase systems. Chemical Engineering Journal, 2016, 283, 251-259.	12.7	45

#	Article	IF	Citations
1157	Microbial diversity in support of anaerobic biomass valorization. Critical Reviews in Biotechnology, 2017, 37, 1-10.	9.0	27
1158	Catalytic transfer hydrogenation of biomass-derived levulinic acid and its esters to Î³-valerolactone over ZrO 2 catalyst supported on SBA-15 silica. Catalysis Today, 2017, 281, 418-428.	4.4	129
1159	Direct conversion of biomass components to the biofuel methyl levulinate catalyzed by acid-base bifunctional zirconia-zeolites. Applied Catalysis B: Environmental, 2017, 200, 182-191.	20.2	124
1160	Carbon-coated Cu-Co bimetallic nanoparticles as selective and recyclable catalysts for production of biofuel 2,5-dimethylfuran. Applied Catalysis B: Environmental, 2017, 200, 192-199.	20.2	205
1161	Conversion of biodieselâ€derived glycerol into biotechnological products of industrial significance by yeast and fungal strains. Engineering in Life Sciences, 2017, 17, 262-281.	3.6	84
1162	A comparative assessment of microwave assisted (MAE) and conventional solid-liquid (SLE) techniques for the extraction of phloroglucinol from brown seaweed. Algal Research, 2017, 23, 28-36.	4.6	61
1163	Impact of the fouling mechanism on enzymatic depolymerization of xylan in different configurations of membrane reactors. Separation and Purification Technology, 2017, 178, 154-162.	7.9	16
1164	Polymers from sugars: cyclic monomer synthesis, ring-opening polymerisation, material properties and applications. Chemical Communications, 2017, 53, 2198-2217.	4.1	114
1165	Bifunctionalized Mesoporous SBA-15: A New Heterogeneous Catalyst for the Facile Synthesis of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2017, 5, 2763-2773.	6.7	92
1166	The design of efficient carbonate interchange reactions with catechol carbonate. Green Chemistry, 2017, 19, 1519-1528.	9.0	26
1167	A review on synthesis of alkoxymethyl furfural, a biofuel candidate. Renewable and Sustainable Energy Reviews, 2017, 71, 908-926.	16.4	103
1168	Mechanical and anticorrosion properties of furan/epoxyâ€based basalt fiberâ€reinforced composites. Journal of Applied Polymer Science, 2017, 134, .	2.6	8
1169	Ruthenium and Iridium Dipyridylamine Catalysts for the Efficient Synthesis of Î³-Valerolactone by Transfer Hydrogenation of Levulinic Acid. Organometallics, 2017, 36, 708-713.	2.3	36
1170	Continuousâ€Flow <i>O</i>â€Alkylation of Biobased Derivatives with Dialkyl Carbonates in the Presence of Magnesiumâ€"Aluminium Hydrotalcites as Catalyst Precursors. ChemSusChem, 2017, 10, 1571-1583.	6.8	13
1171	Recent advances in the production of Î³â€valerolactone from biomassâ€derived feedstocks via heterogeneous catalytic transfer hydrogenation. Journal of Chemical Technology and Biotechnology, 2017, 92, 1125-1135.	3.2	92
1172	Microwaveâ€Assisted Valorization of Biowastes to Levulinic Acid. ChemistrySelect, 2017, 2, 1375-1380.	1.5	27
1173	Mechanistic Insight into Biomass Conversion to Fiveâ€"membered Lactone Based on Computational and Experimental Analysis. ChemistrySelect, 2017, 2, 591-597.	1.5	5
1174	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. Bioresource Technology, 2017, 237, 222-230.	9.6	121

#	Article	IF	Citations
1175	Furfural production from biomassâ€"derived carbohydrates and lignocellulosic residues via heterogeneous acid catalysts. Industrial Crops and Products, 2017, 98, 68-75.	5.2	94
1176	Biotechnological Production of Organic Acids from Renewable Resources. Advances in Biochemical Engineering/Biotechnology, 2017, 166, 373-410.	1.1	16
1177	Dehydration of sorbitol to isosorbide over sulfonic acid resins under solvent-free conditions. Applied Catalysis A: General, 2017, 537, 66-73.	4.3	36
1178	Biotechnological route for sustainable succinate production utilizing oil palm frond and kenaf as potential carbon sources. Applied Microbiology and Biotechnology, 2017, 101, 3055-3075.	3.6	22
1179	Activity of continuous flow synthesized Pd-based nanocatalysts in the flow hydroconversion of furfural. Tetrahedron, 2017, 73, 5599-5604.	1.9	34
1180	Investigation into 1,3-butadiene and other bulk chemicals' formation from bioethanol over Mgâ€"Al catalysts. RSC Advances, 2017, 7, 11929-11937.	3.6	9
1181	2,5-Furandicarboxylic Acid- and Itaconic Acid-Derived Fully Biobased Unsaturated Polyesters and Their Cross-Linked Networks. Industrial & Engineering Chemistry Research, 2017, 56, 2650-2657.	3.7	58
1182	Sustainability assessment of glucose production technologies from highly recalcitrant softwood including scavengers. Biofuels, Bioproducts and Biorefining, 2017, 11, 441-453.	3.7	13
1183	Integrated process development of a reactive extraction concept for itaconic acid and application to a real fermentation broth. Engineering in Life Sciences, 2017, 17, 809-816.	3.6	24
1184	Pretreatment technologies of lignocellulosic biomass in water in view of furfural and 5-hydroxymethylfurfural production- A review. Biomass Conversion and Biorefinery, 2017, 7, 247-274.	4.6	136
1185	Hydrodeoxygenation of isocyanates: snapshots of a magnesium-mediated Cî€O bond cleavage. Chemical Science, 2017, 8, 3529-3537.	7.4	63
1186	Selective Production of 2â€Methylfuran by Gasâ€Phase Hydrogenation of Furfural on Copper Incorporated by Complexation in Mesoporous Silica Catalysts. ChemSusChem, 2017, 10, 1448-1459.	6.8	49
1187	Micelles versus Ribbons: How Congeners Drive the Selfâ€Assembly of Acidic Sophorolipid Biosurfactants. ChemPhysChem, 2017, 18, 643-652.	2.1	29
1188	MnCo₂O₄ spinel supported ruthenium catalyst for air-oxidation of HMF to FDCA under aqueous phase and base-free conditions. Green Chemistry, 2017, 19, 1619-1623.	9.0	158
1189	Beneficial effects of calcium chloride on glucose dehydration to 5-hydroxymethylfurfural in the presence of alumina as catalyst. Applied Catalysis B: Environmental, 2017, 206, 617-625.	20.2	74
1190	Poly(ethylene furanoate- co -ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. European Polymer Journal, 2017, 89, 349-366.	5.4	86
1191	Conversion of C5 Carbohydrates into Furfural Catalyzed by SO₃H-Functionalized Ionic Liquid in Renewable Î³-Valerolactone. Energy & Fuels, 2017, 31, 3929-3934.	5.1	48
1192	Bioprivileged molecules: creating value from biomass. Green Chemistry, 2017, 19, 3177-3185.	9.0	137

#	Article	IF	Citations
1193	Singleâ€Pot Conversion of Tetrahydrofurfuryl Alcohol into Tetrahydropyran over a Ni/HZSMâ€5 Catalyst under Aqueousâ€Phase Conditions. ChemCatChem, 2017, 9, 1402-1408.	3.7	22
1194	One-pot production of 5-hydroxymethylfurfural from cellulose using solid acid catalysts. Fuel Processing Technology, 2017, 159, 280-286.	7.2	28
1195	Investigation of furoate-based ionic liquid as efficient SO₂ absorbent. New Journal of Chemistry, 2017, 41, 2090-2097.	2.8	24
1196	New insights in reactive extraction mechanisms of organic acids: An experimental approach for 3-hydroxypropionic acid extraction with tri-n-octylamine. Separation and Purification Technology, 2017, 179, 523-532.	7.9	25
1197	Selective conversion of furfural to cyclopentanone over CNT-supported Cu based catalysts: Model reaction for upgrading of bio-oil. Fuel, 2017, 202, 1-11.	6.4	72
1198	Multistage torrefaction and in situ catalytic upgrading to hydrocarbon biofuels: analysis of life cycle energy use and greenhouse gas emissions. Energy and Environmental Science, 2017, 10, 1034-1050.	30.8	41
1199	Effective Extraction of Lignin from Elephant Grass Using Imidazole and Its Effect on Enzymatic Saccharification To Produce Fermentable Sugars. Industrial & Engineering Chemistry Research, 2017, 56, 5138-5145.	3.7	31
1200	Development of Silver Based Catalysts Promoted by Noble Metal M (Mâ€‰=â€‰Au, Pd or Pt) for Glycerol Oxidation in Liquid Phase. Topics in Catalysis, 2017, 60, 1072-1081.	2.8	23
1201	Development of New Carbon Resources: Production of Important Chemicals from Algal Residue. Scientific Reports, 2017, 7, 855.	3.3	23
1202	Reactivity studies in water on the acid-catalysed dehydration of psicose compared to other ketohexoses into 5-hydroxymethylfurfural. Carbohydrate Research, 2017, 446-447, 1-6.	2.3	16
1203	Porous Tin-Organic Frameworks as Selective Epimerization Catalysts in Aqueous Solutions. ACS Catalysis, 2017, 7, 3792-3798.	11.2	18
1204	Iridiumâ€Catalyzed Reductive Amination of Levulinic Acid to Pyrrolidinones under <scp>H₂</scp> in Water. Chinese Journal of Chemistry, 2017, 35, 581-585.	4.9	33
1205	The emergence of patent races in lignocellulosic biofuels, 2002â€"2015. Renewable and Sustainable Energy Reviews, 2017, 77, 318-326.	16.4	20
1206	The U.S. cellulosic biofuels industry: Expert views on commercialization drivers and barriers. Biomass and Bioenergy, 2017, 102, 52-61.	5.7	47
1207	Review on enzymatic synthesis of value added products of glycerol, a by-product derived from biodiesel production. Resource-efficient Technologies, 2017, 3, 394-405.	0.1	48
1208	Restoring of Glucose Metabolism of Engineered <i>Yarrowia lipolytica</i> for Succinic Acid Production via a Simple and Efficient Adaptive Evolution Strategy. Journal of Agricultural and Food Chemistry, 2017, 65, 4133-4139.	5.2	51
1209	<i>Phanerochaete chrysosporium</i> Multienzyme Catabolic System for <i>in Vivo</i> Modification of Synthetic Lignin to Succinic Acid. ACS Chemical Biology, 2017, 12, 1749-1759.	3.4	29
1210	Itaconic acid used as a versatile building block for the synthesis of renewable resourceâ€based resins and polyesters for future prospective: a review. Polymer International, 2017, 66, 1349-1363.	3.1	89

#	Article	IF	Citations
1211	Efficient Production of the Liquid Fuel 2,5-Dimethylfuran from 5-Hydroxymethylfurfural in the Absence of Acid Additive over Bimetallic PdAu Supported on Graphitized Carbon. Energy & Fuels, 2017, 31, 6364-6373.	5.1	36
1212	High hexitols selectivity in cellulose hydrolytic hydrogenation over platinum (Pt) vs. ruthenium (Ru) catalysts supported on micro/mesoporous carbon. Applied Catalysis B: Environmental, 2017, 214, 1-14.	20.2	57
1213	Efficient Generation of Lactic Acid from Glycerol over a Ruâ€Znâ€Cu^I/Hydroxyapatite Catalyst. Chemistry - an Asian Journal, 2017, 12, 1598-1604.	3.3	19
1214	Isosorbide telechelic bio-based oligomers. Journal of Polymer Science Part A, 2017, 55, 2178-2189.	2.3	4
1216	Sulfuric acid and Amberlyst-H+ catalyzed condensation reactions of renewable keto acids with paraformaldehyde: synthesis of a new dispiro bis-lactone ring system 2,9,13-trioxadispiro[4.1.4.3]tetradecane-3,6,10-trione. RSC Advances, 2017, 7, 23917-23923.	3.6	4
1217	Murai Reaction on Furfural Derivatives Enabled by Removable <i>N</i>,<i>N</i>â€²â€Bidentate Directing Groups. Chemistry - A European Journal, 2017, 23, 8385-8389.	3.3	30
1218	Biological Routes for the Synthesis of Platform Chemicals from Biomass Feedstocks. , 2017, , 153-166.		5
1219	Hydrogenation of biomass-derived ethyl levulinate into Î³-valerolactone by activated carbon supported bimetallic Ni and Fe catalysts. Fuel, 2017, 203, 23-31.	6.4	84
1220	Conversion of furan derivatives for preparation of biofuels over Niâ€"Cu/C catalyst. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 1176-1181.	2.3	21
1221	One-Pot Selective Conversion of Hemicellulose to Xylitol. Organic Process Research and Development, 2017, 21, 165-170.	2.7	36
1222	Potassium-Ion-Exchanged Zeolites for Sustainable Production of Acrylic Acid by Gas-Phase Dehydration of Lactic Acid. ACS Catalysis, 2017, 7, 538-550.	11.2	45
1223	Processing and mechanical properties of bioâ€derived vinyl ester resinâ€based composites. Journal of Applied Polymer Science, 2017, 134, .	2.6	5
1224	Adsorption and Reactive Desorption on Metalâ€"Organic Frameworks: A Direct Strategy for Lactic Acid Recovery. ChemSusChem, 2017, 10, 643-650.	6.8	17
1225	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures. Journal of Chemical Thermodynamics, 2017, 113, 291-300.	2.0	13
1226	Multi-product biorefineries from lignocelluloses: a pathway to revitalisation of the sugar industry?. Biotechnology for Biofuels, 2017, 10, 87.	6.2	151
1227	Role of ionâ€exchange resins as catalyst in the reactionâ€network of transformation of biomass into biofuels. Journal of Chemical Technology and Biotechnology, 2017, 92, 2775-2786.	3.2	34
1228	Intramolecular dehydration of biomass-derived sugar alcohols in high-temperature water. Physical Chemistry Chemical Physics, 2017, 19, 2714-2722.	2.8	27
1229	Efficient synthesis of 5-(chloromethyl)furfural (CMF) from high fructose corn syrup (HFCS) using continuous flow processing. Reaction Chemistry and Engineering, 2017, 2, 541-549.	3.7	19

#	Article	IF	Citations
1230	Aldose to ketose interconversion: galactose and arabinose isomerization over heterogeneous catalysts. Catalysis Science and Technology, 2017, 7, 5321-5331.	4.1	29
1231	Impact of aryloxy initiators on the living and immortal polymerization of lactide. Dalton Transactions, 2017, 46, 6723-6733.	3.3	9
1232	Heteroâ€Dielsâ€"Alder and Ringâ€Opening Reactions of Furans Applied to the Synthesis of Functionalized Heterocycles. European Journal of Organic Chemistry, 2017, 2017, 4011-4025.	2.4	22
1233	Production of 3-hydroxypropionic acid via the malonyl-CoA pathway using recombinant fission yeast strains. Journal of Bioscience and Bioengineering, 2017, 124, 392-399.	2.2	29
1234	Supply Chain Optimization of Integrated Glycerol Biorefinery: <i>GlyThink</i> Model Development and Application. Industrial & Engineering Chemistry Research, 2017, 56, 6711-6727.	3.7	13
1235	Hydrothermal Processing in Biorefineries. , 2017, , .		41
1236	Catalytic transformation of functionalized carboxylic acids using multifunctional rhenium complexes. Scientific Reports, 2017, 7, 3425.	3.3	30
1237	Recent advances in catalytic production of sugar alcohols and their applications. Science China Chemistry, 2017, 60, 853-869.	8.2	68
1238	Chemically recyclable polymers: a circular economy approach to sustainability. Green Chemistry, 2017, 19, 3692-3706.	9.0	557
1239	Lignocellulosics as sustainable resources for production of bioplastics â€" A review. Journal of Cleaner Production, 2017, 162, 646-664.	9.3	312
1240	Lignocellulosic biomass pyrolysis mechanism: A state-of-the-art review. Progress in Energy and Combustion Science, 2017, 62, 33-86.	31.2	1,748
1241	Ethanol from biomass: A comparative overview. Renewable and Sustainable Energy Reviews, 2017, 80, 743-755.	16.4	211
1242	Aerobic Oxidation of Glucose to Glucaric Acid under Alkaline-Free Conditions: Au-Based Bimetallic Catalysts and the Effect of Residues in a Hemicellulose Hydrolysate. Industrial & Engineering Chemistry Research, 2017, 56, 13175-13189.	3.7	57
1243	Selective hydrogenolysis and hydrogenation using metal catalysts directly modified with metal oxide species. Green Chemistry, 2017, 19, 2876-2924.	9.0	206
1244	Approximate quantum chemical methods for modelling carbohydrate conformation and aromatic interactions: Î²-cyclodextrin and its adsorption on a single-layer graphene sheet. Physical Chemistry Chemical Physics, 2017, 19, 15346-15355.	2.8	7
1245	Mechanistic study of ethanol conversion into butadiene over silver promoted zirconia catalysts. Applied Catalysis B: Environmental, 2017, 215, 36-49.	20.2	77
1246	Enzymatic synthesis of biobased poly(1,4-butylene succinate-ran-2,3-butylene succinate) copolyesters and characterization. Influence of 1,4- and 2,3-butanediol contents. European Polymer Journal, 2017, 93, 103-115.	5.4	15
1247	Lewis acid catalysis on single site Sn centers incorporated into silica hosts. Coordination Chemistry Reviews, 2017, 343, 220-255.	18.8	87

#	Article	IF	Citations
1248	Manganese-Catalyzed Direct Deoxygenation of Primary Alcohols. ACS Catalysis, 2017, 7, 4462-4466.	11.2	84
1249	Nanostructured Materials for Next-Generation Energy Storage and Conversion. , 2017, , .		7
1250	MCR-ALS applied to the quantification of the 5-hydroxymethylfurfural using UV spectra: Study of catalytic process employing experimental design. Chemometrics and Intelligent Laboratory Systems, 2017, 167, 132-138.	3.5	5
1251	Biosuccinic Acid from Lignocellulosic-Based Hexoses and Pentoses by Actinobacillus succinogenes: Characterization of the Conversion Process. Applied Biochemistry and Biotechnology, 2017, 183, 1465-1477.	2.9	37
1252	Biotechnology of Yeasts and Filamentous Fungi. , 2017, , .		8
1253	Integrating lignin valorization and bio-ethanol production: on the role of Ni-Al₂O₃catalyst pellets during lignin-first fractionation. Green Chemistry, 2017, 19, 3313-3326.	9.0	251
1254	Synthesis and characterization of fully biobased poly(propylene succinateâ€ranâ€propylene adipate). Analysis of the architectureâ€dependent physicochemical behavior. Journal of Polymer Science Part A, 2017, 55, 2738-2748.	2.3	9
1255	Production of Platform Chemicals from Sustainable Resources. Biofuels and Biorefineries, 2017, , .	0.5	30
1256	Biobased Furanics: Kinetic Studies on the Acid Catalyzed Decomposition of 2-Hydroxyacetyl Furan in Water Using BrÃ¶nsted Acid Catalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 3993-4001.	6.7	7
1257	Co-fermentation of lignocellulose-based glucose and inhibitory compounds for lipid synthesis by Rhodococcus jostii RHA1. Process Biochemistry, 2017, 57, 159-166.	3.7	15
1258	The Role of Bioenergy in Mitigating Climate Change. , 2017, , 433-495.		0
1259	Modeling the p â€“ v â€“ T behavior of furfural compounds using perturbed linear Yukawa isotherm regularity. Journal of Molecular Liquids, 2017, 236, 18-26.	4.9	4
1260	Sugarcane-Biorefinery. Advances in Biochemical Engineering/Biotechnology, 2017, 166, 125-136.	1.1	12
1261	Structure-activity relationships of Ni-Cu/Al 2 O 3 catalysts for Î³-valerolactone conversion to 2-methyltetrahydrofuran. Applied Catalysis B: Environmental, 2017, 210, 328-341.	20.2	54
1262	Effect of Cs+ on the hydrogenolysis of glycerol to higher value sustainable and green chemicals using a supported Ni-HSiW catalyst. Catalysis Today, 2017, 291, 195-203.	4.4	17
1263	Solvent-free microwave-assisted synthesis of solketal from glycerol using transition metal ions promoted mordenite solid acid catalysts. Molecular Catalysis, 2017, 434, 184-193.	2.0	56
1264	Redirecting carbon flux through <i>pgi</i>-deficient and heterologous transhydrogenase toward efficient succinate production in <i>Corynebacterium glutamicum</i>. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1115-1126.	3.0	8
1265	Catalytic application of layered double hydroxide-derived catalysts for the conversion of biomass-derived molecules. Catalysis Science and Technology, 2017, 7, 1622-1645.	4.1	163

#	Article	IF	Citations
1266	Synthesis of Poly(vitamin C) through ADMET. Macromolecular Rapid Communications, 2017, 38, 1600772.	3.9	8
1267	Fast microwave-assisted acidolysis: a new biorefinery approach for the zero-waste utilisation of lignocellulosic biomass to produce high quality lignin and fermentable saccharides. Faraday Discussions, 2017, 202, 351-370.	3.2	35
1268	Heterogeneous catalysts for the cyclization of dicarboxylic acids to cyclic anhydrides as monomers for bioplastic production. Green Chemistry, 2017, 19, 3238-3242.	9.0	22
1269	Coordination of metabolic pathways: Enhanced carbon conservation in 1,3-propanediol production by coupling with optically pure lactate biosynthesis. Metabolic Engineering, 2017, 41, 102-114.	7.0	46
1270	Controlled defunctionalisation of biobased organic acids. Chemical Communications, 2017, 53, 5682-5693.	4.1	14
1271	Biomass Conversion Technologies: Catalytic Conversion Technologies. Lecture Notes in Energy, 2017, , 113-121.	0.3	2
1272	Biokinetic model-based multi-objective optimization of Dunaliella tertiolecta cultivation using elitist non-dominated sorting genetic algorithm with inheritance. Bioresource Technology, 2017, 242, 206-217.	9.6	11
1273	Products Components: Alcohols. Advances in Biochemical Engineering/Biotechnology, 2017, 166, 339-372.	1.1	4
1274	Developing new platform chemicals: what is required for a new bio-based molecule to become a platform chemical in the bioeconomy?. Faraday Discussions, 2017, 202, 213-225.	3.2	38
1275	Selective hydrodeoxygenation of 5-hydroxymethylfurfural to 2,5-dimethylfuran on Ruâ€“MoO_x/C catalysts. RSC Advances, 2017, 7, 16311-16318.	3.6	81
1276	Challenges in the development of bio-based solvents: a case study on methyl(2,2-dimethyl-1,3-dioxolan-4-yl)methyl carbonate as an alternative aprotic solvent. Faraday Discussions, 2017, 202, 157-173.	3.2	39
1277	Technological innovation systems for biorefineries: a review of the literature. Biofuels, Bioproducts and Biorefining, 2017, 11, 534-548.	3.7	89
1278	Nitrile-hydrolyzing enzyme from Meyerozyma guilliermondii and its potential in biosynthesis of 3-hydroxypropionic acid. Bioprocess and Biosystems Engineering, 2017, 40, 901-910.	3.4	11
1279	Efficient green catalysis for the conversion of fructose to levulinic acid. Applied Catalysis A: General, 2017, 539, 70-79.	4.3	77
1280	Gas phase oxidation of furfural to maleic anhydride on V 2 O 5 /Î³-Al 2 O 3 catalysts: Reaction conditions to slow down the deactivation. Journal of Catalysis, 2017, 348, 265-275.	6.2	48
1281	Oneâ€Pot Preparation of Dimethyl Isosorbide from <scp>d</scp>â€Sorbitol via Dimethyl Carbonate Chemistry. ChemSusChem, 2017, 10, 53-57.	6.8	28
1282	Efficient one-pot synthesis of n-butyl levulinate from carbohydrates catalyzed by Fe 2 (SO 4) 3. Journal of Energy Chemistry, 2017, 26, 556-563.	12.9	52
1283	High-value low-volume bioproducts coupled to bioenergies with potential to enhance business development of sustainable biorefineries. Renewable and Sustainable Energy Reviews, 2017, 70, 793-804.	16.4	166

#	Article	IF	Citations
1284	Heterogeneouslyâ€Catalyzed Aerobic Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid with MnO₂. ChemSusChem, 2017, 10, 654-658.	6.8	134
1285	Effective conversion of biomass into bromomethylfurfural, furfural, and depolymerized lignin in lithium bromide molten salt hydrate of a biphasic system. RSC Advances, 2017, 7, 300-308.	3.6	57
1286	Proteomic Analysis of Metabolic Responses to Biofuels and Chemicals in Photosynthetic Cyanobacteria. Methods in Enzymology, 2017, 585, 355-376.	1.0	1
1287	Enzymatic and catalytic hybrid method for levulinic acid synthesis from biomass sugars. Journal of Cleaner Production, 2017, 143, 490-496.	9.3	24
1288	Preparation of SBA-15 supported Pt/Pd bimetallic catalysts using supercritical fluid reactive deposition: how do solvent effects during material synthesis affect catalytic properties?. Green Chemistry, 2017, 19, 977-986.	9.0	39
1289	Catalytic Transfer Hydrogenation of Biomass-Derived Levulinic Acid and Its Esters to Î³-Valerolactone over Sulfonic Acid-Functionalized UiO-66. ACS Sustainable Chemistry and Engineering, 2017, 5, 1141-1152.	6.7	198
1290	Preparation of A. succinogenes immobilized microfiber membrane for repeated production of succinic acid. Enzyme and Microbial Technology, 2017, 98, 34-42.	3.2	19
1291	Synthesis and characterization of biobased poly(butylene succinate- ran -butylene adipate). Analysis of the composition-dependent physicochemical properties. European Polymer Journal, 2017, 87, 84-98.	5.4	52
1292	Life cycle analysis of cornâ€stoverâ€derived polymerâ€grade lâ€lactic acid and ethyl lactate: greenhouse gas emissions and fossil energy consumption. Biofuels, Bioproducts and Biorefining, 2017, 11, 258-268.	3.7	17
1293	Production of <i>p</i>â€Methylstyrene and <i>p</i>â€Divinylbenzene from Furanic Compounds. ChemSusChem, 2017, 10, 91-98.	6.8	29
1294	Biocatalytic Reduction of HMF to 2,5â€Bis(hydroxymethyl)furan by HMFâ€Tolerant Whole Cells. ChemSusChem, 2017, 10, 372-378.	6.8	92
1295	â€œNonstrainedâ€•Î³-Butyrolactone-Based Copolyesters: Copolymerization Characteristics and Composition-Dependent (Thermal, Eutectic, Cocrystallization, and Degradation) Properties. Macromolecules, 2017, 50, 8469-8479.	4.8	65
1296	Yeast diversity in relation to the production of fuels and chemicals. Scientific Reports, 2017, 7, 14259.	3.3	14
1297	New Routes for Refinery of Biogenic Platform Chemicals Catalyzed by Cerium Oxide-supported Ruthenium Nanoparticles in Water. Scientific Reports, 2017, 7, 14007.	3.3	15
1298	Solid-state structure and thermal characteristics of a sustainable biobased copolymer: Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	16
1299	Biodegradability of polyesters comprising a bio-based monomer derived from furfural. Polymer Degradation and Stability, 2017, 146, 121-125.	5.8	24
1300	Streamlined Synthesis of Biomonomers for Bioresourced Materials: Bisfuran Diacids, Diols, and Diamines via Common Bisfuran Dibromide Intermediates. Industrial & Engineering Chemistry Research, 2017, 56, 11380-11387.	3.7	5
1301	Lactate-Based Ionic Liquid Catalyzed Reductive Amination/Cyclization of Keto Acids under Mild Conditions: A Metal-Free Route To Synthesize Lactams. ACS Catalysis, 2017, 7, 7772-7776.	11.2	51

#	Article	IF	Citations
1302	Soluble Lignin Recovered from Biorefinery Pretreatment Hydrolyzate Characterized by Ligninâ€"Carbohydrate Complexes. ACS Sustainable Chemistry and Engineering, 2017, 5, 10763-10771.	6.7	46
1303	Preparation of new Î²-D-xyloside- and Î²-D-xylobioside-based ionic liquids through chemical and/or enzymatic reactions. Carbohydrate Research, 2017, 451, 72-80.	2.3	6
1304	Cyclobutane-1,3-Diacid (CBDA): A Semi-Rigid Building Block Prepared by [2+2] Photocyclization for Polymeric Materials. Scientific Reports, 2017, 7, 13704.	3.3	18
1305	Synthesis and characterization of polyurethane foams derived of fully renewable polyester polyols from sorbitol. European Polymer Journal, 2017, 97, 319-327.	5.4	34
1306	Porous nitrogen-enriched carbonaceous material from marine waste: chitosan-derived carbon nitride catalyst for aerial oxidation of 5-hydroxymethylfurfural (HMF) to 2,5-furandicarboxylic acid. Scientific Reports, 2017, 7, 13596.	3.3	47
1307	Controlling the Surface Reactivity of Titania via Electronic Tuning of Self-Assembled Monolayers. ACS Catalysis, 2017, 7, 8351-8357.	11.2	30
1308	Recent advances in extraction of antioxidants from plant by-products processing industries. Food Quality and Safety, 2017, 1, 61-81.	1.8	106
1309	Lipase-catalyzed synthesis of biobased and biodegradable aliphatic copolyesters from short building blocks. Effect of the monomer length. European Polymer Journal, 2017, 97, 328-337.	5.4	16
1310	Catalytic Synthesis of 2,5-Furandicarboxylic Acid from Furoic Acid: Transformation from C5 Platform to C6 Derivatives in Biomass Utilizations. ACS Sustainable Chemistry and Engineering, 2017, 5, 9360-9369.	6.7	39
1311	Direct conversion of glucose to 5-hydroxymethylfurfural using a mixture of niobic acid and niobium phosphate as a solid acid catalyst. Fuel, 2017, 210, 67-74.	6.4	64
1312	Investigation of accessibility and reactivity of cellulose pretreated by ionic liquid at high loading. Carbohydrate Polymers, 2017, 176, 365-373.	10.2	27
1313	Selective Ringâ€Opening Polymerization of Nonâ€Strained Î³â€Butyrolactone Catalyzed by A Cyclic Trimeric Phosphazene Base. Angewandte Chemie, 2017, 129, 13167-13170.	2.0	34
1314	Bio-based N-alkyl-2-pyrrolidones by Pd-catalyzed reductive N-alkylation and decarboxylation of glutamic acid. Green Chemistry, 2017, 19, 4919-4929.	9.0	17
1315	Water excellent solvent for the synthesis of bifunctionalized cyclopentenones from furfural. Green Chemistry, 2017, 19, 5403-5411.	9.0	55
1317	Process development and technoâ€economic analysis of bioâ€based succinic acid derived from pentoses integrated to a sugarcane biorefinery. Biofuels, Bioproducts and Biorefining, 2017, 11, 1051-1064.	3.7	57
1318	Influence of Reâ€"M interactions in Reâ€"M/C bimetallic catalysts prepared by a microwave-assisted thermolytic method on aqueous-phase hydrogenation of succinic acid. Catalysis Science and Technology, 2017, 7, 5212-5223.	4.1	31
1319	Current advances of succinate biosynthesis in metabolically engineered Escherichia coli. Biotechnology Advances, 2017, 35, 1040-1048.	11.7	24
1320	Sustainable chemistry: how to produce better and more from less?. Green Chemistry, 2017, 19, 4973-4989.	9.0	125

#	Article	IF	Citations
1321	Selective and Efficient Iridium Catalyst for the Reductive Amination of Levulinic Acid into Pyrrolidones. ChemSusChem, 2017, 10, 4150-4154.	6.8	66
1322	Heterogeneous catalysis for bio-based polyester monomers from cellulosic biomass: advances, challenges and prospects. Green Chemistry, 2017, 19, 5012-5040.	9.0	141
1323	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. Green Chemistry, 2017, 19, 4939-4955.	9.0	116
1324	Conversion of C5 carbohydrates into furfural catalyzed by a Lewis acidic ionic liquid in renewable Î³-valerolactone. Green Chemistry, 2017, 19, 3869-3879.	9.0	68
1325	Purification and characterization of thermostable cellulase from Enterobacter cloacae IP8 isolated from decayed plant leaf litter. Biocatalysis and Biotransformation, 2017, 35, 379-387.	2.0	5
1326	Oneâ€Pot Transformation of Carbohydrates into Valuable Furan Derivatives via 5â€Hydroxymethylfurfural. ChemCatChem, 2017, 9, 4244-4255.	3.7	20
1327	Experimental and Kinetic Modeling Studies on the Conversion of Sucrose to Levulinic Acid and 5-Hydroxymethylfurfural Using Sulfuric Acid in Water. Industrial & Engineering Chemistry Research, 2017, 56, 13228-13239.	3.7	71
1328	A theoretical elucidation: why does a SO₃H-functionalized imidazolium-based ionic liquid catalyze the conversion of 5-hydroxymethylfurfural to levulinic acid?. New Journal of Chemistry, 2017, 41, 8714-8720.	2.8	18
1329	Efficient Production of Biomassâ€Derived C₄ Chiral Synthons in Aqueous Solution. ChemCatChem, 2017, 9, 4179-4184.	3.7	12
1330	<scp>MCM</scp>â€41 Immobilized Acidic Functional Ionic Liquid and Chromium(<scp>III</scp>) Complexes Catalyzed Conversion of Hexose into 5â€Hydroxymethylfurfural. Chinese Journal of Chemistry, 2017, 35, 1739-1748.	4.9	7
1331	Catalytic fast pyrolysis of biomass to produce furfural using heterogeneous catalysts. Journal of Analytical and Applied Pyrolysis, 2017, 127, 292-298.	5.5	62
1332	Highly efficient synchronized production of phenol and 2,5-dimethylfuran through a bimetallic Niâ€"Cu catalyzed dehydrogenationâ€"hydrogenation coupling process without any external hydrogen and oxygen supply. Green Chemistry, 2017, 19, 4353-4363.	9.0	43
1333	Levulinic acid hydrodeoxygenation, decarboxylation and oligmerization over NiMo/Al2O3 catalyst to bio-based value-added chemicals: Modelling of mass transfer, thermodynamics and micro-kinetics. Chemical Engineering Journal, 2017, 330, 383-397.	12.7	80
1334	Stereochemical effects on the mechanical and viscoelastic properties of renewable polyurethanes derived from isohexides and hydroxymethylfurfural. Polymer Chemistry, 2017, 8, 4822-4829.	3.9	22
1335	Solving the multifunctionality dilemma in biorefineries with a novel hybrid massâ€"energy allocation method. GCB Bioenergy, 2017, 9, 1674-1686.	5.6	9
1336	An efficient and selective conversion of sorbitol in ionic liquids: Use of ion exchange resin as a solid acid catalyst. Tetrahedron Letters, 2017, 58, 3616-3618.	1.4	6
1337	Exploring Bacterial Carboxylate Reductases for the Reduction of Bifunctional Carboxylic Acids. Biotechnology Journal, 2017, 12, 1600751.	3.5	74
1338	Greenhouse gas emissions and non-renewable energy use profiles of bio-based succinic acid from Arundo donax L. lignocellulosic feedstock. Clean Technologies and Environmental Policy, 2017, 19, 2129-2143.	4.1	10

#	Article	IF	Citations
1339	Enhanced furfural production from raw corn stover employing a novel heterogeneous acid catalyst. Bioresource Technology, 2017, 245, 258-265.	9.6	88
1340	In situ generated Ni(0)@boehmite from NiAl-LDH: An efficient catalyst for selective hydrogenation of biomass derived levulinic acid to Î³-valerolactone. Catalysis Communications, 2017, 102, 40-43.	3.3	46
1341	Selective Ringâ€Opening Polymerization of Nonâ€Strained Î³â€Butyrolactone Catalyzed by A Cyclic Trimeric Phosphazene Base. Angewandte Chemie - International Edition, 2017, 56, 12987-12990.	13.8	160
1342	Study of organic acids in Schisandrae Chinensis Fructus after vinegar processing. Journal of Separation Science, 2017, 40, 4012-4021.	2.5	9
1343	Efficient Iridium Catalysts for Base-Free Hydrogenation of Levulinic Acid. Organometallics, 2017, 36, 3152-3162.	2.3	56
1344	Whole-cell biocatalytic selective oxidation of 5-hydroxymethylfurfural to 5-hydroxymethyl-2-furancarboxylic acid. Green Chemistry, 2017, 19, 4544-4551.	9.0	78
1345	A systems perspective on chemical production from mixed food waste: The case of bio-succinate in Sweden. Resources, Conservation and Recycling, 2017, 125, 86-97.	10.8	11
1346	Genomic and transcriptomic analysis of Saccharomyces cerevisiae isolates with focus in succinic acid production. FEMS Yeast Research, 2017, 17, .	2.3	15
1347	Selective Electrogenerative Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandialdehyde. ChemSusChem, 2017, 10, 4851-4854.	6.8	44
1348	Catalytic Conversion of Biomass Hydrolysate into 5-Hydroxymethylfurfural. Industrial & Engineering Chemistry Research, 2017, 56, 14447-14453.	3.7	12
1349	Kinetics of hydrogen production by the autothermal reforming of crude glycerol over modified nickel supported catalyst. Journal of Environmental Chemical Engineering, 2017, 5, 5827-5835.	6.7	17
1351	Interplay between crystallization and the Dielsâ€“Alder reaction in biobased multiblock copolyesters possessing dynamic covalent bonds. Polymer Chemistry, 2017, 8, 4280-4289.	3.9	24
1352	A novel route for green conversion of cellulose to HMF by cascading enzymatic and chemical reactions. AICHE Journal, 2017, 63, 4920-4932.	3.6	44
1353	High-Value Biomass-Derived 2,5-Furandicarboxylic Acid Derivatives Obtained by a Double Decarboxylative Cross-Coupling. ACS Sustainable Chemistry and Engineering, 2017, 5, 7071-7076.	6.7	19
1354	Catalytic Upgrading of Glycerol, Conversion of Biomass Derived Carbohydrates to Fuels and Catalysis in Depolymerization of Lignin. Green Energy and Technology, 2017, , 113-139.	0.6	0
1355	Reactivity of Bridged and Nonbridged Zirconocenes toward Biorenewable Itaconic Esters and Anhydride. Organometallics, 2017, 36, 2922-2933.	2.3	3
1356	One-pot conversion of biomass-derived xylose to furfuralcohol by a chemo-enzymatic sequential acid-catalyzed dehydration and bioreduction. Green Chemistry, 2017, 19, 3844-3850.	9.0	72
1357	Valorization of starchy, cellulosic, and sugary food waste into hydroxymethylfurfural by one-pot catalysis. Chemosphere, 2017, 184, 1099-1107.	8.2	58

#	Article	IF	Citations
1358	Study on the structure-properties relationship of biodegradable and biobased aliphatic copolyesters based on 1,3-propanediol, 1,4-butanediol, succinic and adipic acids. Polymer, 2017, 122, 105-116.	3.8	38
1360	Efficient itaconic acid production from glycerol with Ustilago vetiveriae TZ1. Biotechnology for Biofuels, 2017, 10, 131.	6.2	53
1361	A comparison of various lignin-extraction methods to enhance the accessibility and ease of enzymatic hydrolysis of the cellulosic component of steam-pretreated poplar. Biotechnology for Biofuels, 2017, 10, 157.	6.2	124
1362	Transformation of Diols to Ketones via Intramolecular Borrowing Hydrogen Mechanism. Chemistry Letters, 2017, 46, 1333-1336.	1.3	4
1363	Mechanism of Microwaveâ€Assisted Pyrolysis of Glucose to Furfural Revealed by Isotopic Tracer and Quantum Chemical Calculations. ChemSusChem, 2017, 10, 3040-3043.	6.8	13
1364	The effect of carbon dioxide availability on succinic acid production with biofilms of Actinobacillus succinogenes. Biochemical Engineering Journal, 2017, 117, 218-225.	3.6	30
1365	Liquidâ€"Liquid Equilibrium Measurements for Model Systems Related to Catalytic Fast Pyrolysis of Biomass. Journal of Chemical & Engineering Data, 2017, 62, 243-252.	1.9	10
1366	Production of 2-Hydroxyisobutyric Acid from Methanol by Methylobacterium extorquens AM1 Expressing (<i>R</i>)-3-Hydroxybutyryl Coenzyme A-Isomerizing Enzymes. Applied and Environmental Microbiology, 2017, 83, .	3.1	32
1367	Relationship between phosphate structure and acid-base properties of phosphate-modified zirconiaâ€"Application to alcohol dehydration. Applied Catalysis A: General, 2017, 530, 193-202.	4.3	12
1368	Synthesis and evaluation of acid-base bi-functionalized SBA-15 catalyst for biomass energy conversation. Chemical Engineering Journal, 2017, 313, 1593-1606.	12.7	56
1369	Humins as promising material for producing sustainable carbohydrate-derived building materials. Construction and Building Materials, 2017, 139, 594-601.	7.2	60
1370	Comprehensive Understanding of the Role of BrÃ¸nsted and Lewis Acid Sites in Glucose Conversion into 5â€Hydromethylfurfural. ChemCatChem, 2017, 9, 2739-2746.	3.7	86
1371	Synthesis of Cyclopentadienylâ€Based Tricarbonyl Rhenium Complexes and Some Unusual Reactivities of Cyclopentadienyl Substituents. European Journal of Inorganic Chemistry, 2017, 2017, 741-751.	2.0	6
1372	Diffusion (DOSY) 1H NMR as an Alternative Method for Molecular Weight Determination of Poly(ethylene furanoate) (PEF) Polyesters. Macromolecular Chemistry and Physics, 2017, 218, 1600436.	2.2	28
1373	Solvent effects in hydrodeoxygenation of furfural-acetone aldol condensation products over Pt/TiO 2 catalyst. Applied Catalysis A: General, 2017, 530, 174-183.	4.3	28
1374	Levulinic acid production by two-step acid-catalyzed treatment of Quercus mongolica using dilute sulfuric acid. Bioresource Technology, 2017, 225, 183-190.	9.6	53
1375	The influence of swelling agents molecular dimensions on lamellar morphology of MWW-type zeolites active for fructose conversion. Microporous and Mesoporous Materials, 2017, 254, 17-27.	4.4	26
1376	Regioselectivity and Reaction Mechanism of Ruâ€Catalyzed Hydrogenolysis of Squalane and Model Alkanes. ChemSusChem, 2017, 10, 189-198.	6.8	47

#	Article	IF	Citations
1377	Conversion of carbohydrates into 5â€hydroxymethylfurfural in a green reaction system of CO₂â€waterâ€isopropanol. AIChE Journal, 2017, 63, 257-265.	3.6	63
1378	New biosourced AA and AB monomers from 1,4:3,6-dianhydrohexitols, Isosorbide, Isomannide, and Isoidide. Designed Monomers and Polymers, 2017, 20, 221-233.	1.6	5
1379	Optimal design of upstream processes in biotransformation technologies. Bioresource Technology, 2017, 224, 509-514.	9.6	21
1380	Life cycle assessment of photodegradable polymeric material derived from renewable bioresources. Journal of Cleaner Production, 2017, 142, 2935-2944.	9.3	37
1381	Chemicals from biomass: technological <i>versus</i> environmental feasibility. A review. Biofuels, Bioproducts and Biorefining, 2017, 11, 195-214.	3.7	126
1382	Oneâ€Pot Selective Catalytic Synthesis of Pyrrolidone Derivatives from Ethyl Levulinate and Nitro Compounds. ChemSusChem, 2017, 10, 119-128.	6.8	55
1383	Productive Chain of Biofuels and Industrial Biocatalysis. , 2017, , 545-581.		4
1384	Kinetics of homogeneous 5â€hydroxymethylfurfural oxidation to 2,5â€furandicarboxylic acid with Co/Mn/Br catalyst. AIChE Journal, 2017, 63, 162-171.	3.6	39
1385	An overview of the enzyme potential in bioenergy-producing biorefineries. Journal of Chemical Technology and Biotechnology, 2017, 92, 906-924.	3.2	48
1386	In situ UVâ€“VIS spectrophotometry within the second time scale as a research tool for solid-state catalyst and liquid-phase reactions at high temperatures: Its application to the formation of HMF from glucose and cellulose. Chemical Engineering Journal, 2017, 307, 1066-1075.	12.7	18
1387	Producing PHAs in the bioeconomy â€" Towards a sustainable bioplastic. Sustainable Production and Consumption, 2017, 9, 58-70.	11.0	231
1388	Zeroâ€growth bioprocesses: A challenge for microbial production strains and bioprocess engineering. Engineering in Life Sciences, 2017, 17, 27-35.	3.6	26
1389	Aerobiosisâ€“anaerobiosis transition has a significant impact on organic acid production by Corynebacterium glutamicum. Process Biochemistry, 2017, 52, 10-21.	3.7	7
1390	Renewable <i>p</i>â€Xylene from 2,5â€Dimethylfuran and Ethylene Using Phosphorusâ€Containing Zeolite Catalysts. ChemCatChem, 2017, 9, 398-402.	3.7	118
1391	Process flowsheet optimization of chemicals production from biomass derived glucose solutions. Computers and Chemical Engineering, 2017, 102, 258-267.	3.8	18
1392	Kinetic study of levulinic acid production from corn stalk at mild temperature using FeCl 3 as catalyst. Fuel, 2017, 187, 261-267.	6.4	49
1393	Silica-poly(styrenesulphonic acid) nanocomposites as promising acid catalysts. Catalysis Today, 2017, 279, 155-163.	4.4	5
1394	Synthesis of C4 chain glyceryl ethers via nickel-catalyzed butadiene hydroalkoxylation reaction. Molecular Catalysis, 2017, 427, 25-30.	2.0	8

#	Article	IF	Citations
1395	Theoretical Investigation of the Hydrodeoxygenation of Levulinic Acid to Î³-Valerolactone over Ru(0001). ACS Catalysis, 2017, 7, 215-228.	11.2	65
1396	Direct Transformation of HMF into 2,5â€Diformylfuran and 2,5â€Dihydroxymethylfuran without an External Oxidant or Reductant. ChemSusChem, 2017, 10, 494-498.	6.8	42
1397	Efficient one-pot fructose to DFF conversion using sulfonated magnetically separable MOF-derived Fe₃O₄ (111) catalysts. Green Chemistry, 2017, 19, 647-655.	9.0	86
1398	Oxidation of furfural in aqueous H2O2 catalysed by titanium silicalite: Deactivation processes and role of extraframework Ti oxides. Applied Catalysis B: Environmental, 2017, 202, 269-280.	20.2	85
1399	Furfurylamines from biomass: transaminase catalysed upgrading of furfurals. Green Chemistry, 2017, 19, 397-404.	9.0	94
1400	Engineering an aldehyde dehydrogenase toward its substrates, 3-hydroxypropanal and NAD+, for enhancing the production of 3-hydroxypropionic acid. Scientific Reports, 2017, 7, 17155.	3.3	19
1401	Upgrading of Biomass-Derived Furans into Value-Added Chemicals. Biofuels and Biorefineries, 2017, , 273-303.	0.5	1
1402	Conversion of Biomass Using Simultaneous Chemo- and Bio-catalysis. Biofuels and Biorefineries, 2017, , 347-378.	0.5	1
1403	Polybenzoxazine Materials From Renewable Diphenolic Acid. , 2017, , 427-449.		1
1404	Structural behavior of coal obtained from Kraft lignin at different carbonizing rates. Materials Today: Proceedings, 2017, 4, 11617-11623.	1.8	4
1405	Engineering Saccharomyces cerevisiae for high-level synthesis of fatty acids and derived products. FEMS Yeast Research, 2017, 17, .	2.3	29
1406	Bio- and chemocatalysis cascades as a bridge between biology and chemistry for green polymer synthesis. Cellular and Molecular Biology Letters, 2017, 22, 28.	7.0	6
1407	C3-Monomers. , 2017, , 23-57.		6
1408	Biocatalytic Valorization of Furans: Opportunities for Inherently Unstable Substrates. ChemSusChem, 2017, 10, 4123-4134.	6.8	85
1409	Mesoporous titanium dioxide nanocatalyst: a recyclable approach for oneâ€pot synthesis of 5â€hydroxymethylfurfural. IET Nanobiotechnology, 2017, 11, 690-694.	3.8	4
1410	Facile Chemical Access to Biologically Active Norcantharidin Derivatives from Biomass. Molecules, 2017, 22, 2210.	3.8	21
1411	Aquatic-Derived Biomaterials for a Sustainable Future: A European Opportunity. Resources, 2017, 6, 65.	3.5	52
1412	Xylitol as Bioproduct From the Agro and Forest Biorefinery. , 2017, , 411-432.		8

#	Article	IF	Citations
1413	Chitin and Cellulose Processing in Low-Temperature Electron Beam Plasma. Molecules, 2017, 22, 1908.	3.8	12
1414	Microemulsion and Sol-Gel Synthesized ZrO2-MgO Catalysts for the Liquid-Phase Dehydration of Xylose to Furfural. Molecules, 2017, 22, 2257.	3.8	9
1415	Catalyst Influence on Undesired Side Reactions in the Polycondensation of Fully Bio-Based Polyester Itaconates. Polymers, 2017, 9, 693.	4.5	34
1416	Microbial Production of Added-Value Ingredients: State of the Art. , 2017, , 1-32.		2
1417	Catalysis for a Sustainable Chemicals Production, Environment, and the Future. , 2017, , 621-628.		2
1418	Hydrolysis of cellulose using heteropoly salts derivatives from H3PW12O40 with different redox properties as catalysts. Revista Materia, 2017, 22, .	0.2	3
1419	Catalytic Processes for Utilizing Carbohydrates Derived from Algal Biomass. Catalysts, 2017, 7, 163.	3.5	8
1420	Catalytic Conversion of Carbohydrates to Furanic Derivatives in the Presence of Choline Chloride. Catalysts, 2017, 7, 218.	3.5	18
1421	Efficient Catalytic Upgrading of Levulinic Acid into Alkyl Levulinates by Resin-Supported Acids and Flow Reactors. Catalysts, 2017, 7, 235.	3.5	41
1422	Classification of Biorefineries Taking into Account Sustainability Potentials and Flexibility. , 2017, , 1-39.		13
1423	The Protagonism of Biocatalysis in Green Chemistry and Its Environmental Benefits. Catalysts, 2017, 7, 9.	3.5	64
1424	Supported Metal Catalysts for Total Hydrogenation of Furfural and 5-Hydroxymethylfurfural. Journal of the Japan Petroleum Institute, 2017, 60, 1-9.	0.6	37
1425	A Biorefinery Processing Perspective for the Production of Polymers. , 2017, , 335-370.		0
1426	Mechanical, dielectric, and physicochemical properties of impregnating resin based on unsaturated polyesterimides. EPJ Applied Physics, 2017, 80, 10901.	0.7	6
1427	Propionic acid production from corn stover hydrolysate by Propionibacterium acidipropionici. Biotechnology for Biofuels, 2017, 10, 200.	6.2	25
1428	Chemical Process Intensification with Pressure-Tunable Media. Theoretical Foundations of Chemical Engineering, 2017, 51, 928-935.	0.7	2
1429	A Combined Process for Production of Fumaric Acid and Xylooligosaccharides from Corncob. BioResources, 2017, 13, .	1.0	0
1430	Advances in Metabolic Engineering of Saccharomyces cerevisiae for the Production of Industrially and Clinically Important Chemicals. , 0, , .		4

#	Article	IF	Citations
1431	THE EFFECTS OF REDUCING POWER FROM METAL CARBONATES ON SUCCINIC ACID PRODUCTION USING ACTINOBACILLUS SUCCINOGENES. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	0
1432	Organic Synthetic Approach for a Production of Fine Chemicals from Sugars. Nihon Energugi Gakkaishi/Journal of the Japan Institute of Energy, 2017, 96, 408-416.	0.2	1
1433	Foundational techniques for catalyst design in the upgrading of biomass-derived multifunctional molecules. Progress in Energy and Combustion Science, 2018, 67, 1-30.	31.2	24
1434	Highly Efficient Conversion of Xylose Residues to Levulinic Acid over FeCl₃ Catalyst in Green Salt Solutions. ACS Sustainable Chemistry and Engineering, 2018, 6, 3154-3161.	6.7	49
1435	Energy from Microalgae. Green Energy and Technology, 2018, , .	0.6	6
1436	Catalytic coupling of biomass-derived aldehydes into intermediates for biofuels and materials. Catalysis Science and Technology, 2018, 8, 1777-1798.	4.1	55
1437	Business models for commercial scale second-generation bioethanol production. Journal of Cleaner Production, 2018, 184, 168-178.	9.3	37
1438	Kinetic Studies on the Conversion of Levoglucosan to Glucose in Water Using BrÃ¸nsted Acids as the Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 3204-3214.	3.7	24
1439	<i>x</i>Niâ€"<i>y</i>Cuâ€"ZrO₂ catalysts for the hydrogenation of levulinic acid to gamma valorlactone. Journal of Lithic Studies, 2018, 4, 12-23.	0.5	9
1440	Efficient utilization of renewable feedstocks: the role of catalysis and process design. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170064.	3.4	21
1441	Metabolic engineering of <i>Escherichia coli</i> to produce succinate from soybean hydrolysate under anaerobic conditions. Biotechnology and Bioengineering, 2018, 115, 1743-1754.	3.3	15
1442	Microalgae Biorefineries for Energy and Coproduct Production. Green Energy and Technology, 2018, , 89-140.	0.6	8
1443	Catalytic conversion of glucose into levulinic and formic acids using aqueous BrÃ¸nsted acid. Journal of Industrial and Engineering Chemistry, 2018, 63, 48-56.	5.8	31
1444	DOSY Plus Selective TOCSY: An Efficient NMR Combination for Analyzing Hydrogenation/Hydrogenolysis Mixtures of Biomass-Derived Platform Compounds. Energy & Fuels, 2018, 32, 3551-3558.	5.1	6
1445	Effects of Alkaliâ€Metal Ions and Counter Ions in Snâ€Betaâ€Catalyzed Carbohydrate Conversion. ChemSusChem, 2018, 11, 1198-1203.	6.8	17
1446	The Road to Biorenewables: Carbohydrates to Commodity Chemicals. ACS Sustainable Chemistry and Engineering, 2018, 6, 4464-4480.	6.7	120
1447	Tensile, Thermal, and Electrical Conductivity Properties of Carbon Fiber Reinforced Composites Using Itaconic Acid Based Dispersants. Fibers and Polymers, 2018, 19, 416-422.	2.1	0
1448	Heuristics To Guide the Development of Sustainable, Biomass-Derived, Platform Chemical Derivatives. ACS Sustainable Chemistry and Engineering, 2018, 6, 5533-5539.	6.7	12

#	Article	IF	Citations
1449	An Easy Scalable Approach to HMF Employing DMC as Reaction Media: Reaction Optimization and Comparative Environmental Assessment. ChemistrySelect, 2018, 3, 2359-2365.	1.5	23
1450	Techno-economic analysis of thermal deoxygenation based biorefineries for the coproduction of fuels and chemicals. Applied Energy, 2018, 214, 16-23.	10.1	29
1451	Catalytic metal-based systems for controlled statistical copolymerisation of lactide with a lactone. Polymer Chemistry, 2018, 9, 2517-2531.	3.9	68
1452	Biogas. Biofuel and Biorefinery Technologies, 2018, , .	0.3	23
1453	Investigating the Central Metabolism of Clostridium thermosuccinogenes. Applied and Environmental Microbiology, 2018, 84, .	3.1	18
1454	Biorefineries: Focusing on a Closed Cycle Approach with Biogas as the Final Step. Biofuel and Biorefinery Technologies, 2018, , 277-303.	0.3	3
1455	Conservative evolution and industrial metabolism in Green Chemistry. Green Chemistry, 2018, 20, 2171-2191.	9.0	45
1456	Preparation of biorenewable poly(Î³-butyrolactone)-<i>b</i>-poly(<scp>l</scp>-lactide) diblock copolyesters <i>via</i> one-pot sequential metal-free ring-opening polymerization. Polymer Chemistry, 2018, 9, 2936-2941.	3.9	50
1457	Transformation of Sugars into Chiral Polyols over a Heterogeneous Catalyst. Angewandte Chemie - International Edition, 2018, 57, 8058-8062.	13.8	51
1458	Fungi short-chain carboxylate transporter: shift from microbe hereditary functional component to metabolic engineering target. Applied Microbiology and Biotechnology, 2018, 102, 4653-4662.	3.6	1
1459	Branching-First: Synthesizing Câ€“C Skeletal Branched Biobased Chemicals from Sugars. ACS Sustainable Chemistry and Engineering, 2018, 6, 7940-7950.	6.7	5
1460	Selective Hydrogenation of Levulinic Acid Using Ru/C Catalysts Prepared by Sol-Immobilisation. Topics in Catalysis, 2018, 61, 833-843.	2.8	21
1461	Dehydrogenation of alcohols and polyols from a hydrogen production perspective. ChemistrySelect, 2018, 3, .	1.5	1
1462	Curing mechanism, heat resistance, and anticorrosion properties of a furan/methyl phenyl silicone coating. Polymers for Advanced Technologies, 2018, 29, 1913-1921.	3.2	8
1463	One-pot catalytic selective synthesis of 1,4-butanediol from 1,4-anhydroerythritol and hydrogen. Green Chemistry, 2018, 20, 2547-2557.	9.0	44
1464	Going Beyond the Limits of the Biorenewable Platform: Sodium Dithionite-Promoted Stabilization of 5-Hydroxymethylfurfural. ChemSusChem, 2018, 11, 1612-1616.	6.8	48
1465	Chemical Transformation for 5-Hydroxymethylfurfural Production from Saccharides Using Molten Salt System. ACS Sustainable Chemistry and Engineering, 2018, 6, 5712-5717.	6.7	24
1466	Total Hydrogenation of Furfural over Pd/Al₂O₃ and Ru/ZrO₂ Mixture under Mild Conditions: Essential Role of Tetrahydrofurfural as an Intermediate and Support Effect. ACS Sustainable Chemistry and Engineering, 2018, 6, 6957-6964.	6.7	63

#	Article	IF	Citations
1467	Regioselective hydrogenolysis of alga-derived squalane over silica-supported rutheniumâ€'vanadium catalyst. Fuel Processing Technology, 2018, 176, 249-257.	7.2	31
1468	Mutual Influence of Furfural and Furancarboxylic Acids on Their Solubility in Aqueous Solutions: Experiments and Perturbed-Chain Statistical Associating Fluid Theory (PC-SAFT) Predictions. Journal of Chemical & Engineering Data, 2018, 63, 1460-1470.	1.9	12
1469	Unravelling the Mechanism of the Ru/Câ€Catalysed Isohexide and Ether Isomerization by Hydrogen Isotope Exchange. Advanced Synthesis and Catalysis, 2018, 360, 2358-2363.	4.3	3
1470	Synthesis and crystallization of new fully renewable resources-based copolyesters: Poly(1,4-cyclohexanedimethanol-co-isosorbide 2,5-furandicarboxylate). Polymer Degradation and Stability, 2018, 152, 177-190.	5.8	34
1471	á»¨ng dá»¥ng xÃºc tÃ¡c dá»‹ thá»ƒ trong lá»c dáº§u sinh há»c (biorafinery) vÃ sáº£n xuáº¥t nÄƒng lÆ°á»£ng má»›i. Vietnam Journal of Chemistry, 2018, 56, 20-33.	0.8	0
1472	CuO/CeO₂ catalysts for glycerol selective conversion to lactic acid. Dalton Transactions, 2018, 47, 4572-4582.	3.3	29
1473	Straightforward sustainability assessment of sugar-derived molecules from first-generation biomass. Current Opinion in Green and Sustainable Chemistry, 2018, 10, 11-20.	5.9	18
1474	Elaboration and Characterization of Advanced Biobased Polyurethane Foams Presenting Anisotropic Behavior. Macromolecular Materials and Engineering, 2018, 303, 1700501.	3.6	16
1475	A versatile method for obtaining new oxygenated fuel components from biomass. Industrial Crops and Products, 2018, 113, 288-297.	5.2	10
1476	Formation of organic acids during cellobiose decomposition in hot-compressed water. Fuel, 2018, 218, 174-178.	6.4	7
1477	Copper(II) Triflate As a Reusable Catalyst for the Synthesis of <i>trans</i>-4,5-Diamino-cyclopent-2-enones in Water. Journal of Organic Chemistry, 2018, 83, 7509-7513.	3.2	32
1478	Secondâ€generation bioâ€based plastics are becoming a reality â€" Nonâ€renewable energy and greenhouse gas (GHG) balance of succinic acidâ€based plastic end products made from lignocellulosic biomass. Biofuels, Bioproducts and Biorefining, 2018, 12, 426-441.	3.7	47
1479	Imidazolium ionic liquids as effective antiseptics and disinfectants against drug resistant S. aureus: In silico and in vitro studies. Computational Biology and Chemistry, 2018, 73, 127-138.	2.3	23
1480	A biorefinery approach for dairy wastewater treatment and product recovery towards establishing a biorefinery complexity index. Journal of Cleaner Production, 2018, 183, 1184-1196.	9.3	76
1481	Influence of a Lewis acid and a BrÃ¸nsted acid on the conversion of microcrystalline cellulose into 5-hydroxymethylfurfural in a single-phase reaction system of water and 1,2-dimethoxyethane. RSC Advances, 2018, 8, 7235-7242.	3.6	40
1483	Valorization of Chitosan as Food Waste of Aquatic Organisms into 5â€Hydroxymethylfurfural by Sulfamic Acidâ€Catalyzed Conversion Process. Energy Technology, 2018, 6, 1747-1754.	3.8	19
1484	Solventâ€Free Enzyme Activity: Quick, Highâ€Yielding Mechanoenzymatic Hydrolysis of Cellulose into Glucose. Angewandte Chemie - International Edition, 2018, 57, 2621-2624.	13.8	72
1485	Copper-Based Catalytic Anodes To Produce 2,5-Furandicarboxylic Acid, a Biomass-Derived Alternative to Terephthalic Acid. ACS Catalysis, 2018, 8, 1197-1206.	11.2	218

#	Article	IF	Citations
1486	Products of sugar beet processing as raw materials for chemicals and biodegradable polymers. RSC Advances, 2018, 8, 3161-3177.	3.6	84
1487	Synthesis of Ceria and Sulfated Zirconia Catalysts Supported on Mesoporous SBA-15 toward Glucose Conversion to 5-Hydroxymethylfurfural in a Green Isopropanol-Mediated System. Industrial & Engineering Chemistry Research, 2018, 57, 1968-1979.	3.7	46
1488	Catalytic conversion of biomass-derived levulinic acid into alcohols over nanoporous Ru catalyst. Catalysis Science and Technology, 2018, 8, 975-979.	4.1	41
1489	Solventâ€Free Enzyme Activity: Quick, Highâ€Yielding Mechanoenzymatic Hydrolysis of Cellulose into Glucose. Angewandte Chemie, 2018, 130, 2651-2654.	2.0	34
1490	Efficient Production of 5-Hydroxymethylfurfural Enhanced by Liquidâ€"Liquid Extraction in a Membrane Dispersion Microreactor. ACS Sustainable Chemistry and Engineering, 2018, 6, 3992-3999.	6.7	31
1491	Marine algal carbohydrates as carbon sources for the production of biochemicals and biomaterials. Biotechnology Advances, 2018, 36, 798-817.	11.7	128
1492	Optimization of the levulinic acid production from the red macroalga, Gracilaria verrucosa using methanesulfonic acid. Algal Research, 2018, 31, 116-121.	4.6	30
1493	Efficient conversion of glucosamine to levulinic acid in a sulfamic acid-catalyzed hydrothermal reaction. RSC Advances, 2018, 8, 3198-3205.	3.6	21
1494	Multiobjective optimization for the socio-eco-efficient conversion of lignocellulosic biomass to biofuels and bioproducts. Clean Technologies and Environmental Policy, 2018, 20, 603-620.	4.1	16
1495	Aqueous Phase Synthesis of 5-Hydroxymethylfurfural from Glucose over Large Pore Mesoporous Zirconium Phosphates: Effect of Calcination Temperature. ACS Omega, 2018, 3, 808-820.	3.5	54
1496	Catalytic cracking of biomass tar over char supported nickel catalyst. Energy, 2018, 145, 228-237.	8.8	142
1497	Biorefining and industrial symbiosis: A proposal for regional development in Brazil. Journal of Cleaner Production, 2018, 177, 19-33.	9.3	35
1498	Fabrication and Evaluation of Multiâ€Walled Carbon Nanotubes Supported Novel Catalyst for Select Conversion of Cellulose to 5â€Hydroxymethylfurfural. Energy Technology, 2018, 6, 1633-1641.	3.8	10
1499	Modification of poly(ethylene 2,5-furandicarboxylate) (PEF) with 1, 4-cyclohexanedimethanol: Influence of stereochemistry of 1,4-cyclohexylene units. Polymer, 2018, 137, 173-185.	3.8	63
1500	Manufacturing Ethylene from Wet Shale Gas and Biomass: Comparative Technoeconomic Analysis and Environmental Life Cycle Assessment. Industrial & Engineering Chemistry Research, 2018, 57, 5980-5998.	3.7	50
1501	High-Temperature Batch and Continuous-Flow Transesterification of Alkyl and Enol Esters with Glycerol and Its Acetal Derivatives. ACS Sustainable Chemistry and Engineering, 2018, 6, 3964-3973.	6.7	25
1502	Production of levulinic acid from glucosamine using zirconium oxychloride. Journal of Industrial and Engineering Chemistry, 2018, 61, 119-123.	5.8	22
1503	Hydrogenolysis of sorbitol into valuable C3-C2 alcohols at low H2 pressure promoted by the heterogeneous Pd/Fe3O4 catalyst. Molecular Catalysis, 2018, 446, 152-160.	2.0	43

#	Article	IF	Citations
1504	The Piancatelli reaction and its variants: recent applications to high added-value chemicals and biomass valorization. Organic and Biomolecular Chemistry, 2018, 16, 676-687.	2.8	83
1505	Thermo-chemical conversion for production of levulinic and formic acids from glucosamine. Fuel Processing Technology, 2018, 172, 115-124.	7.2	31
1506	Catalytic oxidation of carbohydrates into organic acids and furan chemicals. Chemical Society Reviews, 2018, 47, 1351-1390.	38.1	440
1507	Encapsulation of ultrafine metal-oxide nanoparticles within mesopores for biomass-derived catalytic applications. Chemical Science, 2018, 9, 1854-1859.	7.4	62
1508	Towards Sustainable Production of Formic Acid. ChemSusChem, 2018, 11, 821-836.	6.8	257
1509	Sulphonic Acid-Functionalized Benzimidazolium Based Poly Ionic Liquid Catalyzed Esterification of Levulinic Acid. Catalysis Letters, 2018, 148, 680-690.	2.6	41
1510	1,3-Butadiene Production from Bioethanol and Acetaldehyde over Zirconium Oxide Supported on Series Silica Catalysts. Catalysis Surveys From Asia, 2018, 22, 118-122.	2.6	10
1511	Efficient conversion of fructose to 5-[(formyloxy)methyl]furfural by reactive extraction and in-situ esterification. Korean Journal of Chemical Engineering, 2018, 35, 1312-1318.	2.7	14
1512	Optimization of hydrothermal conversion of bamboo (Phyllostachys aureosulcata) to levulinic acid via response surface methodology. Journal of Environmental Management, 2018, 219, 95-102.	7.8	21
1513	Solubilities of 2,5-Furandicarboxylic Acid in Binary Acetic Acid + Water, Methanol + Water, and Ethanol + Water Solvent Mixtures. Journal of Chemical & Engineering Data, 2018, 63, 1987-1993.	1.9	16
1514	Purification of 2,5-Dimethylfuran from <i>n</i>-Butanol Using Defect-Engineered Metalâ€"Organic Frameworks. ACS Sustainable Chemistry and Engineering, 2018, 6, 7931-7939.	6.7	24
1515	Self-sustained enzymatic cascade for the production of 2,5-furandicarboxylic acid from 5-methoxymethylfurfural. Biotechnology for Biofuels, 2018, 11, 86.	6.2	49
1516	Real-time imaging reveals that lytic polysaccharide monooxygenase promotes cellulase activity by increasing cellulose accessibility. Biotechnology for Biofuels, 2018, 11, 41.	6.2	64
1517	Transformation of Sugars into Chiral Polyols over a Heterogeneous Catalyst. Angewandte Chemie, 2018, 130, 8190-8194.	2.0	11
1518	Green approaches in the synthesis of furan-based diepoxy monomers. RSC Advances, 2018, 8, 16330-16335.	3.6	26
1519	Improved synthesis of 2,5-bis(hydroxymethyl)furan from 5-hydroxymethylfurfural using acclimatized whole cells entrapped in calcium alginate. Bioresource Technology, 2018, 262, 177-183.	9.6	52
1520	Homogeneous catalysis for the production of low-volume, high-value chemicals from biomass. Nature Reviews Chemistry, 2018, 2, 35-46.	30.2	148
1521	A matrix-resistant HPTLC method to quantify monosaccharides in wood-based lignocellulose biorefinery streams. Holzforschung, 2018, 72, 645-652.	1.9	9

#	Article	IF	Citations
1522	Process engineering for microbial production of 3-hydroxypropionic acid. Biotechnology Advances, 2018, 36, 1207-1222.	11.7	59
1523	Raney-Ni catalyzed conversion of levulinic acid to 5-methyl-2-pyrrolidone using ammonium formate as the H and N source. Tetrahedron Letters, 2018, 59, 1832-1835.	1.4	42
1524	Gas-Phase Fructose Conversion to Furfural in a Microfluidized Bed Reactor. ACS Sustainable Chemistry and Engineering, 2018, 6, 5580-5587.	6.7	13
1525	Dehydration of D-xylose into furfural over bimetallic salts of heteropolyacid in DMSO/H2O mixture. Applied Catalysis A: General, 2018, 558, 18-25.	4.3	43
1526	Oxidation of Aldoses Contained in Softwood Hemicellulose Acid Hydrolysates into Aldaric Acids under Alkaline or Noncontrolled pH Conditions. Industrial & Engineering Chemistry Research, 2018, 57, 4543-4552.	3.7	9
1527	Catalyst-free reductive amination of levulinic acid to N-substituted pyrrolidinones with formic acid in continuous-flow microreactor. Journal of Flow Chemistry, 2018, 8, 35-43.	1.9	15
1528	A leap forward in iridiumâ€“NHC catalysis: new horizons and mechanistic insights. Chemical Society Reviews, 2018, 47, 2772-2808.	38.1	112
1529	Efficient Method for Synthesis of 2,5-Furandicarboxylic Acid from 5-Hydroxymethylfurfural and Fructose Using Pd/CC Catalyst under Aqueous Conditions. ACS Sustainable Chemistry and Engineering, 2018, 6, 5766-5771.	6.7	88
1530	Structural, morphological, and thermal characterization of kraft lignin and its charcoals obtained at different heating rates. Materials Research Express, 2018, 5, 045502.	1.6	17
1531	Towards a sustainable bio-based economy: Redirecting primary metabolism to new products with plant synthetic biology. Plant Science, 2018, 273, 84-91.	3.6	31
1532	Conversion of Biomass and Its Derivatives to Levulinic Acid and Levulinate Esters via Ionic Liquids. Industrial & Engineering Chemistry Research, 2018, 57, 4749-4766.	3.7	69
1533	Continuous Flow Organic Chemistry: Successes and Pitfalls at the Interface with Current Societal Challenges. European Journal of Organic Chemistry, 2018, 2018, 2301-2351.	2.4	188
1534	Recent Development of Biobased Epoxy Resins: A Review. Polymer-Plastics Technology and Engineering, 2018, 57, 133-155.	1.9	162
1535	Levulinate-intercalated LDH: A potential heterogeneous organocatalyst for the green epoxidation of Î±,Î²-unsaturated esters. Catalysis Today, 2018, 306, 154-165.	4.4	9
1536	New approaches for itaconic acid production: bottlenecks and possible remedies. Critical Reviews in Biotechnology, 2018, 38, 68-82.	9.0	66
1537	Catalytic insights into the production of biomass-derived side products methyl levulinate, furfural and humins. Catalysis Today, 2018, 302, 2-15.	4.4	125
1538	Selective synthesis of acetaldehyde from lactic acid on acid zeolites. Catalysis Today, 2018, 302, 203-209.	4.4	29
1539	Dehydration of fructose and glucose to 5-hydroxymethylfurfural over Al-KCC-1 silica. Journal of Energy Chemistry, 2018, 27, 769-780.	12.9	49

#	Article	IF	Citations
1540	Role of bioenergy, biorefinery and bioeconomy in sustainable development: Strategic pathways for Malaysia. Renewable and Sustainable Energy Reviews, 2018, 81, 1966-1987.	16.4	120
1541	Chemoselective hydrogenation of furfural to furfuryl alcohol on ZrO2 systems synthesized through the microemulsion method. Catalysis Today, 2018, 306, 89-95.	4.4	38
1542	Electrocatalytic oxidation of meso-erythritol in anion-exchange membrane alkaline fuel cell on PdAg/CNT catalyst. Journal of Power Sources, 2018, 375, 345-350.	7.8	13
1543	Mechanistic insights into formic acid dehydrogenation promoted by Cu-amino based systems. Inorganica Chimica Acta, 2018, 470, 290-294.	2.4	10
1544	Definition of green synthetic tools based on safer reaction media, heterogeneous catalysis, and flow technology. Pure and Applied Chemistry, 2018, 90, 21-33.	1.9	30
1545	Synthesis and characterization of itaconicâ€based epoxy resins. Polymers for Advanced Technologies, 2018, 29, 160-170.	3.2	28
1546	Catalysis as an Enabling Science for Sustainable Polymers. Chemical Reviews, 2018, 118, 839-885.	47.7	669
1547	Hydrogenation of 5-hydroxymethylfurfural to 2,5 dimethylfuran over nickel supported tungsten oxide nanostructured catalyst. Sustainable Energy and Fuels, 2018, 2, 191-198.	4.9	49
1548	Synthesis and properties of polyamides from 2,5â€furandicarboxylic acid. Journal of Applied Polymer Science, 2018, 135, 45901.	2.6	50
1549	A lignin-derived sulphated carbon for acid catalyzed transformations of bio-derived sugars. Catalysis Communications, 2018, 104, 101-105.	3.3	21
1550	Esterification of levulinic acid with ethanol catalyzed by sulfonated carbon catalysts: Promotional effects of additional functional groups. Catalysis Today, 2018, 314, 62-69.	4.4	46
1551	Efficient production of succinic acid from duckweed (Landoltia punctata) hydrolysate by Actinobacillus succinogenes GXAS137. Bioresource Technology, 2018, 250, 35-42.	9.6	43
1552	Solvent free acetalization of glycerol with formaldehyde over hierarchical zeolite of BEA topology. Environmental Progress and Sustainable Energy, 2018, 37, 797-807.	2.3	8
1553	Dimethyl carbonate: a versatile reagent for a sustainable valorization of renewables. Green Chemistry, 2018, 20, 288-322.	9.0	204
1554	Making Levulinic Acid and Ethyl Levulinate Economically Viable: A Worldwide Technoeconomic and Environmental Assessment of Possible Routes. Energy Technology, 2018, 6, 613-639.	3.8	88
1555	Selective synthesis of 2, 5-furandicarboxylic acid by oxidation of 5-hydroxymethylfurfural over MnFe 2 O 4 catalyst. Catalysis Today, 2018, 309, 119-125.	4.4	56
1556	Zr-USY zeolite: Efficient catalyst for the transformation of xylose into bio-products. Catalysis Today, 2018, 304, 80-88.	4.4	29
1557	Hexafluoroisopropanol as a Lowâ€Boiling Extraction Solvent for 5â€Hydroxymethylfurfural Production. Energy Technology, 2018, 6, 432-440.	3.8	11

#	Article	IF	Citations
1558	Techno-economic and ex-ante environmental assessment of C6 sugars production from spruce and corn. Comparison of organosolv and wet milling technologies. Journal of Cleaner Production, 2018, 170, 610-624.	9.3	31
1559	Sustainable rubbers and rubber additives. Journal of Applied Polymer Science, 2018, 135, 45701.	2.6	70
1560	Value added products from fermentation of sugars derived from agro-food residues. Trends in Food Science and Technology, 2018, 71, 52-64.	15.1	56
1561	Tuning Y-zeolite based catalyst with copper for enhanced activity and selectivity in vapor phase hydrogenolysis of glycerol to 1,2-propanediol. Applied Catalysis A: General, 2018, 550, 308-319.	4.3	43
1562	Concept of rice husk biorefining for levulinic acid production integrating three steps: Multi-response optimization, new perceptions and limitations. Process Biochemistry, 2018, 65, 146-156.	3.7	27
1563	SÃ¼ÃŸe Chemie. , 2018, , 109-140.		0
1564	Catalytic fast pyrolysis of cellulose to produce furan compounds with SAPO type catalysts. Journal of Analytical and Applied Pyrolysis, 2018, 129, 53-60.	5.5	68
1565	Bioprocesses for the Production of 2,5-Furandicarboxylic Acid. Energy, Environment, and Sustainability, 2018, , 127-141.	1.0	4
1566	Silica deposition as an approach for improving the hydrothermal stability of an alumina support during glycerol aqueous phase reforming. Applied Catalysis A: General, 2018, 551, 13-22.	4.3	32
1567	Facile production of 2,5-diformylfuran from base-free oxidation of 5-hydroxymethyl furfural over manganeseâ€"cobalt spinels supported ruthenium nanoparticles. Journal of Industrial and Engineering Chemistry, 2018, 60, 513-519.	5.8	39
1568	Novel biobased copolyesters based on 1,2-propanediol or 2,3-butanediol with the same ethylene skeletal structure as PETG. Polymer, 2018, 135, 314-326.	3.8	9
1569	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. Applied Energy, 2018, 213, 585-594.	10.1	60
1570	Catalytic Conversion of Carbohydrates to Initial Platform Chemicals: Chemistry and Sustainability. Chemical Reviews, 2018, 118, 505-613.	47.7	898
1571	Positional Selectivity in the Hydrosilylative Partial Deoxygenation of Disaccharides by Boron Catalysts. ACS Catalysis, 2018, 8, 81-85.	11.2	26
1572	The Synthesis of 5-Hydroxymethylfurfural from Glucose in Biphasic System by Phosphotungstic Acidified Titaniumâ€"Zirconium Dioxide. Waste and Biomass Valorization, 2018, 9, 657-668.	3.4	21
1573	Divinylglycol, a Glycerol-Based Monomer: Valorization, Properties, and Applications. ACS Symposium Series, 2018, , 299-330.	0.5	2
1574	Catalytic hydrogenation of carboxylic acids using low-valent and high-valent metal complexes. Chemical Communications, 2018, 54, 13319-13330.	4.1	24
1575	Solvent-free mechanochemical oxidation and reduction of biomass-derived 5-hydroxymethyl furfural. Green Chemistry, 2018, 20, 5261-5265.	9.0	19

#	Article	IF	Citations
1576	Aerobic oxidation of 5-hydroxymethylfurfural to 5-hydroxymethyl-2-furancarboxylic acid and its derivatives by heterogeneous NHC-catalysis. Organic and Biomolecular Chemistry, 2018, 16, 8955-8964.	2.8	50
1577	Utilisation of Lignins in the Bioeconomy: Projections on Ionic Liquids and Molecularly Imprinted Polymers for Selective Separation and Recovery of Base Metals and Gold. , 2018, , .		5
1578	Conversion of levulinic acid to Î³-valerolactone over Ru/Al₂O₃â€“TiO₂ catalyst under mild conditions. RSC Advances, 2018, 8, 40989-40995.	3.6	20
1580	7. Dehydrogenation of alcohols and polyols from a hydrogen production perspective. , 2018, , 231-270.		0
1581	Biobased Chemicals: 1,2,4-Benzenetriol, Selective Deuteration and Dimerization to Bifunctional Aromatic Compounds. Organic Process Research and Development, 2018, 22, 1663-1671.	2.7	17
1582	MPV Reduction of Furfural to Furfuryl Alcohol on Mg, Zr, Ti, Zrâ€“Ti, and Mgâ€“Ti Solids: Influence of Acidâ€“Base Properties. Catalysts, 2018, 8, 539.	3.5	14
1583	Ecoâ€Friendly Production of 5â€Hydroxymethylfurfural from Sucrose Using Commercially Available Dihydric Phosphate as a Catalyst. ChemistrySelect, 2018, 3, 12113-12121.	1.5	6
1584	Efficient Conversion of Cellulose to 5â€Hydroxymethylfurfural in NaHSO 4 /ZrO 2 /H 2 Oâ€THF Biphasic System. ChemistrySelect, 2018, 3, 12243-12249.	1.5	7
1585	Gas Phase Hydrogenation of Furaldehydes via Coupling with Alcohol Dehydrogenation over Ceria Supported Au-Cu. Molecules, 2018, 23, 2905.	3.8	11
1586	Nonstrained Î³-Butyrolactone to High-Molecular-Weight Poly(Î³-butyrolactone): Facile Bulk Polymerization Using Economical Ureas/Alkoxides. Macromolecules, 2018, 51, 9317-9322.	4.8	66
1587	Enhancing 3-hydroxypropionic acid production in combination with sugar supply engineering by cell surface-display and metabolic engineering of Schizosaccharomyces pombe. Microbial Cell Factories, 2018, 17, 176.	4.0	31
1588	Catalytic Pyrolysis of Biomass and Polymer Wastes. Catalysts, 2018, 8, 659.	3.5	113
1589	Lipid metabolism of phenol-tolerant Rhodococcus opacus strains for lignin bioconversion. Biotechnology for Biofuels, 2018, 11, 339.	6.2	23
1590	Chemoâ€•and Regioselective Synthesis of Arylated Î³â€Valerolactones from Bioâ€based Levulinic Acid with Aromatics Using Hâ€Î² Zeolite Catalyst. ChemCatChem, 2019, 11, 1102-1111.	3.7	10
1591	Aqueousâ€Phase Transformation of Glucose into Hydroxymethylfurfural and Levulinic Acid by Combining Homogeneous and Heterogeneous Catalysis. ChemSusChem, 2019, 12, 924-934.	6.8	51
1592	Bioadvantaged Nylon from Renewable Muconic Acid: Synthesis, Characterization, and Properties. ACS Symposium Series, 2018, , 355-367.	0.5	6
1593	Structure Sensitivity of Formic Acid Electrooxidation on Transition Metal Surfaces: A First-Principles Study. Journal of the Electrochemical Society, 2018, 165, J3109-J3121.	2.9	39
1594	Preparation of Novel Aromaticâ€Aliphatic Poly(ketone ester)s through Condensation of Biomassâ€Derived Monomers. ChemCatChem, 2018, 10, 5377-5381.	3.7	7

#	Article	IF	Citations
1595	Opportunities, challenges, and future perspectives of succinic acid production by Actinobacillus succinogenes. Applied Microbiology and Biotechnology, 2018, 102, 9893-9910.	3.6	66
1596	Production of succinate by recombinant Escherichia coli using acetate as the sole carbon source. 3 Biotech, 2018, 8, 421.	2.2	8
1597	Sustainable poly(ether amide)s from ligninâ€derived precursors. Journal of Polymer Science Part A, 2018, 56, 2154-2160.	2.3	4
1598	Shell biorefinery: A comprehensive introduction. Green Energy and Environment, 2018, 3, 318-327.	8.7	79
1599	Recent progress in the synthesis and applications of glycerol carbonate. Current Opinion in Green and Sustainable Chemistry, 2018, 14, 99-107.	5.9	67
1600	Upgrade of 5-Hydroxymethylfurfural to Dicarboxylic Acids onto Multifunctional-Based Fe₃O₄@SiO₂ Magnetic Catalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 14292-14301.	6.7	31
1601	Positioning Organic Electrode Materials in the Battery Landscape. Joule, 2018, 2, 1690-1706.	24.0	320
1602	Phosphazene Bases as Organocatalysts for Ringâ€Opening Polymerization of Cyclic Esters. Macromolecular Rapid Communications, 2018, 39, e1800485.	3.9	81
1603	Kinetics of Hydrothermal Furfural Production from Organosolv Hemicellulose and <scp>d</scp>-Xylose. Industrial & Engineering Chemistry Research, 2018, 57, 14417-14427.	3.7	36
1604	New functional nanocomposites based on poly(trimethylene 2,5-furanoate) and few layer graphene prepared by in situ polymerization. EXPRESS Polymer Letters, 2018, 12, 530-542.	2.1	19
1605	Sustainable Biotechnology- Enzymatic Resources of Renewable Energy. , 2018, , .		18
1606	Enhanced accessibility of carbon in pyrolysis of brown coal using carbon dioxide. Journal of CO2 Utilization, 2018, 27, 433-440.	6.8	20
1607	From a Sequential Chemo-Enzymatic Approach to a Continuous Process for HMF Production from Glucose. Catalysts, 2018, 8, 335.	3.5	14
1608	Sulfated Zirconia Catalysts for D-Sorbitol Cascade Cyclodehydration to Isosorbide: Impact of Zirconia Phase. ACS Sustainable Chemistry and Engineering, 2018, 6, 14704-14712.	6.7	25
1609	Assessment on the double role of the transition metal salts on the acetalization of furfural: Lewis and BrÃ¸nsted acid catalysts. Molecular Catalysis, 2018, 461, 40-47.	2.0	21
1610	How Catalysts and Experimental Conditions Determine the Selective Hydroconversion of Furfural and 5-Hydroxymethylfurfural. Chemical Reviews, 2018, 118, 11023-11117.	47.7	585
1611	Continuous Production of 5â€Hydroxymethylfurfural from Monosaccharide over Zirconium Phosphates. ChemistrySelect, 2018, 3, 10983-10990.	1.5	9
1612	Biocatalytic Transformation of 5-Hydroxymethylfurfural into High-Value Derivatives: Recent Advances and Future Aspects. ACS Sustainable Chemistry and Engineering, 2018, 6, 15915-15935.	6.7	122

#	Article	IF	Citations
1613	General and Prospective Views on Oxidation Reactions in Heterogeneous Catalysis. Catalysts, 2018, 8, 483.	3.5	40
1614	Dual Organocatalysts for Highly Active and Selective Synthesis of Linear Poly(Î³-butyrolactone)s with High Molecular Weights. Macromolecules, 2018, 51, 8705-8711.	4.8	74
1615	Highly crystalline polyesters synthesized from furandicarboxylic acid (FDCA): Potential bio-based engineering plastic. European Polymer Journal, 2018, 109, 379-390.	5.4	38
1616	Ru/Mn Ce1O catalysts with enhanced oxygen mobility and strong metal-support interaction: Exceptional performances in 5-hydroxymethylfurfural base-free aerobic oxidation. Journal of Catalysis, 2018, 368, 53-68.	6.2	121
1617	Catalytic Hydrogen Transfer and Decarbonylation of Aromatic Aldehydes on Ru and Ru Phosphide Model Catalysts. Journal of Physical Chemistry C, 2018, 122, 23600-23609.	3.1	7
1618	Valorization of galactose into levulinic acid via acid catalysis. Korean Journal of Chemical Engineering, 2018, 35, 2232-2240.	2.7	9
1619	Platform Molecule Removal from Aqueous Mixture with Organophilic Pervaporation: Experiments and Modelling. Periodica Polytechnica: Chemical Engineering, 2018, 63, 138-146.	1.1	5
1621	Production of 5â€Hydroxymethylfurfural from Dâ€Fructose in Lowâ€Transitionâ€Temperature Mixtures Enhanced by Chloride Anions and Low Amounts of Organic Acids. ChemPlusChem, 2018, 83, 1135-1143.	2.8	22
1622	Hemicellulose based integrated forest biorefineries: Implementation strategies. Industrial Crops and Products, 2018, 126, 250-260.	5.2	48
1623	Proteomic and metabolomic analysis of the cellular biomarkers related to inhibitors tolerance in Zymomonas mobilis ZM4. Biotechnology for Biofuels, 2018, 11, 283.	6.2	14
1624	Enhancing the potency of surface hydroxyl groups of graphene oxide for selective oxidation of benzyl alcohol. Diamond and Related Materials, 2018, 90, 154-165.	3.9	15
1625	Cobalt-Catalyzed Synthesis of Unsymmetrically <i>N</i>,<i>N</i>-Disubstituted Formamides via Reductive Coupling of Primary Amines and Aldehydes with CO₂ and H₂. Organic Letters, 2018, 20, 6622-6626.	4.6	16
1626	Understanding the Role of the Acid Sites in 5-Hydroxymethylfurfural Oxidation to 2,5-Furandicarboxylic Acid Reaction over Gold Catalysts: Surface Investigation on Ce_{<i>x</i>}Zr_{1â€“<i>x</i>}O₂ Compounds. ACS Catalysis, 2018, 8, 11154-11164.	11.2	55
1627	Acidic Hydrothermal Dehydration of <scp>d</scp>-Glucose into Humins: Identification and Characterization of Intermediates. ACS Sustainable Chemistry and Engineering, 2018, 6, 13487-13493.	6.7	53
1628	Biorenewable Deep Eutectic Solvent for Selective and Scalable Conversion of Furfural into Cyclopentenone Derivatives. Molecules, 2018, 23, 1891.	3.8	47
1629	Dual catalysis system for ring-opening polymerization of lactones and 2,2-dimethyltrimethylene carbonate. Polymer Chemistry, 2018, 9, 4875-4881.	3.9	11
1630	Unveiling the role of choline chloride in furfural synthesis from highly concentrated feeds of xylose. Green Chemistry, 2018, 20, 5104-5110.	9.0	24
1631	Biotic and Abiotic Synthesis of Renewable Aliphatic Polyesters from Short Building Blocks Obtained from Biotechnology. ChemSusChem, 2018, 11, 3836-3870.	6.8	33

#	Article	IF	Citations
1632	Effects of Chain Ends on Thermal and Mechanical Properties and Recyclability of Poly(<i>Î³</i>â€butyrolactone). Journal of Polymer Science Part A, 2018, 56, 2271-2279.	2.3	29
1633	Pre-treatment of corn stover, Cynara cardunculus L. stems and wheat straw by ethanol-water and diluted sulfuric acid: Comparison under different energy input conditions. Bioresource Technology, 2018, 270, 449-456.	9.6	21
1634	Efficient bioconversion of furfural to furfuryl alcohol by<i>Bacillus coagulans</i>NL01. RSC Advances, 2018, 8, 26720-26727.	3.6	40
1635	Biobased Poly(ethylene-<i>co</i>-hexamethylene 2,5-furandicarboxylate) (PEHF) Copolyesters with Superior Tensile Properties. Industrial & Engineering Chemistry Research, 2018, 57, 13094-13102.	3.7	43
1636	Fedâ€batch production of <scp>l</scp>â€tryptophan from glycerol using recombinant <i>Escherichia coli</i>. Biotechnology and Bioengineering, 2018, 115, 2881-2892.	3.3	26
1637	Protonic acid catalysis of sulfonated carbon material: Tunable and selective conversion of fructose in low-boiling point solvent. Applied Catalysis A: General, 2018, 566, 140-145.	4.3	19
1638	Integration of the biorefinery concept for the development of sustainable processes for pulp and paper industry. Computers and Chemical Engineering, 2018, 119, 70-84.	3.8	48
1639	Sustainable Production of Biofuels from Weedy Biomass and Other Unconventional Lignocellulose Wastes. , 2018, , 83-116.		0
1640	A Cp^{tt}â€Based Trioxoâ€Rhenium Catalyst for the Deoxydehydration of Diols and Polyols. ChemCatChem, 2018, 10, 4755-4760.	3.7	28
1641	Crosslinked chitosan films with controllable properties for commercial applications. International Journal of Biological Macromolecules, 2018, 120, 1256-1264.	7.5	101
1642	Impact of Protic Ligands in the Ir-Catalyzed Dehydrogenation of Formic Acid in Water. Organometallics, 2018, 37, 3611-3618.	2.3	18
1643	Lactic acid bacteria: from starter cultures to producers of chemicals. FEMS Microbiology Letters, 2018, 365, .	1.8	136
1644	Determination of cellulose derived 5-hydroxymethyl-2-furfural content in lignocellulosic biomass hydrolysate by headspace gas chromatography. Cellulose, 2018, 25, 3843-3851.	4.9	7
1645	Degradable and renewably-sourced poly(ester-thioethers) by photo-initiated thiolâ€“ene polymerization. Polymer Chemistry, 2018, 9, 3272-3278.	3.9	26
1646	Highly Active Catalytic Ruthenium/TiO2Nanomaterials for Continuous Production of Î³â€Valerolactone. ChemSusChem, 2018, 11, 2604-2611.	6.8	23
1647	Stability of gold nanocatalysts supported on mesoporous silica for the oxidation of 5-hydroxymethyl furfural to furan-2,5-dicarboxylic acid. Applied Catalysis A: General, 2018, 561, 150-157.	4.3	26
1648	Solvent Tolerance in Bacteria: Fulfilling the Promise of the Biotech Era?. Trends in Biotechnology, 2018, 36, 1025-1039.	9.3	43
1649	Aerobic Oxidation of 5â€(Hydroxymethyl)furfural Cyclic Acetal Enables Selective Furanâ€2,5â€dicarboxylic Acid Formation with CeO₂â€Supported Gold Catalyst. Angewandte Chemie, 2018, 130, 8367-8371.	2.0	34

#	Article	IF	Citations
1650	Steering the Ester and Î³-Valerolactone Selectivities in Levulinic Acid Hydrogenation. Energy & Fuels, 2018, 32, 6887-6900.	5.1	22
1651	Continuous pervaporation-assisted furfural production catalyzed by CrCl₃. Green Chemistry, 2018, 20, 2903-2912.	9.0	22
1652	Perspective on catalyst development for glycerol reduction to C3 chemicals with molecular hydrogen. Research on Chemical Intermediates, 2018, 44, 3879-3903.	2.7	74
1653	Vapour Phase Hydrogenolysis of Glycerol over NaY-Zeolite Supported Ru Catalysts for Targeted Selectivity towards 1,2-Propanediol. , 2018, , .		0
1654	Catalysis by MgO and the Role of Zn²⁺ in Talc Catalysts for the Selective Production of 1,3-Butadiene from Ethanol. Journal of the Japan Petroleum Institute, 2018, 61, 171-181.	0.6	11
1655	CO2 to succinic acid â€“ Estimating the potential of biocatalytic routes. Metabolic Engineering Communications, 2018, 7, e00075.	3.6	31
1656	Supported gold- and silver-based catalysts for the selective aerobic oxidation of 5-(hydroxymethyl)furfural to 2,5-furandicarboxylic acid and 5-hydroxymethyl-2-furancarboxylic acid. Green Chemistry, 2018, 20, 3530-3541.	9.0	93
1657	Hybrid Catalytic Biorefining of Hardwood Biomass to Methylated Furans and Depolymerized Technical Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 10587-10594.	6.7	33
1658	Levulinic acid upgrade to succinic acid with hydrogen peroxide. Applied Catalysis A: General, 2018, 563, 98-104.	4.3	36
1659	Overview of thermosets: Present and future. , 2018, , 3-34.		15
1660	Catalytic conversion of 5-hydroxymethylfurfural to some value-added derivatives. Green Chemistry, 2018, 20, 3657-3682.	9.0	233
1661	Optimization of Component Yields and Thermal Properties by Organosolv Fractionation of Loblolly Pine (Pinus taeda) Using Response Surface Design. Bioenergy Research, 2018, 11, 652-664.	3.9	1
1662	Production of 1,3â€butadiene and Îµâ€caprolactam from C6 sugars: Technoâ€economic analysis. Biofuels, Bioproducts and Biorefining, 2018, 12, 600-623.	3.7	12
1663	Thermal Analysis of Biobased Polymers and Composites. Handbook of Thermal Analysis and Calorimetry, 2018, , 399-429.	1.6	11
1664	The green biorefinery concept for the valorisation of pistachio shell by high-pressure CO2/H2O system. Journal of Cleaner Production, 2018, 196, 842-851.	9.3	39
1665	Lactic acid production on molasses enriched potato stillage by Lactobacillus paracasei immobilized onto agro-industrial waste supports. Industrial Crops and Products, 2018, 124, 142-148.	5.2	24
1666	Investigating Reaction Mechanisms for Furfural Hydrodeoxygenation on Ni and the Effect of Boron Doping on the Activity and Selectivity of the Catalyst. Journal of Physical Chemistry C, 2018, 122, 18383-18394.	3.1	32
1667	Gas fermentation of C1 feedstocks: commercialization status and future prospects. Biofuels, Bioproducts and Biorefining, 2018, 12, 1103-1117.	3.7	48

#	Article	IF	Citations
1668	Cobaltâ€“metalloid alloys for electrochemical oxidation of 5-hydroxymethylfurfural as an alternative anode reaction in lieu of oxygen evolution during water splitting. Beilstein Journal of Organic Chemistry, 2018, 14, 1436-1445.	2.2	58
1669	Sucrose Is a Promising Feedstock for the Synthesis of the Platform Chemical Hydroxymethylfurfural. Energies, 2018, 11, 645.	3.1	44
1670	Partially Biosourced Poly(1,2,3-triazolium)-Based Diblock Copolymers Derived from Levulinic Acid. Macromolecules, 2018, 51, 5820-5830.	4.8	17
1671	Radiation-induced degradation of cellulose: From partial depolymerization to complete self-disassembly. Radiation Physics and Chemistry, 2018, 152, 63-68.	2.8	14
1672	Enhanced production of succinic acid from methanolâ€“organosolv pretreated Strophanthus preussii by recombinant Escherichia coli. Bioprocess and Biosystems Engineering, 2018, 41, 1497-1508.	3.4	7
1673	Efficient Production of N-Butyl Levulinate Fuel Additive from Levulinic Acid Using Amorphous Carbon Enriched with Oxygenated Groups. Catalysts, 2018, 8, 14.	3.5	40
1674	Toward Complete Utilization of Miscanthus in a Hot-Water Extraction-Based Biorefinery. Energies, 2018, 11, 39.	3.1	19
1675	Organosolv Fractionation of Softwood Biomass for Biofuel and Biorefinery Applications. Energies, 2018, 11, 50.	3.1	86
1676	Novel aqueous-phase hydrogenation reaction of the key biorefinery platform chemical levulinic acid into Î³-valerolactone employing highly active, selective and stable water-soluble ruthenium catalysts modified with nitrogen-containing ligands. Applied Catalysis B: Environmental, 2018, 238, 82-92.	20.2	33
1677	An overview of biorefinery-derived platform chemicals from a cellulose and hemicellulose biorefinery. Clean Technologies and Environmental Policy, 2018, 20, 1615-1630.	4.1	336
1678	Electrocatalytic Oxidation of 5â€(Hydroxymethyl)furfural Using Highâ€Surfaceâ€Area Nickel Boride. Angewandte Chemie - International Edition, 2018, 57, 11460-11464.	13.8	283
1679	FA Polymerization Disruption by Protic Polar Solvents. Polymers, 2018, 10, 529.	4.5	25
1680	Aquivionâ€“Carbon Composites with Tunable Amphiphilicity for Pickering Interfacial Catalysis. ACS Applied Materials & Interfaces, 2018, 10, 26795-26804.	8.0	27
1681	Reduction of Propionic Acid over a Pd-Promoted ReO_{<i>x</i>}/SiO₂ Catalyst Probed by X-ray Absorption Spectroscopy and Transient Kinetic Analysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 12353-12366.	6.7	14
1682	Aspartic and glutamic acids polymers: preparation and applications in medicinal chemistry and pharmaceutics. Russian Chemical Bulletin, 2018, 67, 614-623.	1.5	13
1683	Catalytic Approaches to the Production of Furfural and Levulinates From Lignocelluloses. , 2018, , 235-269.		0
1684	Techno-economic assessment of a lignocellulosic biorefinery co-producing ethanol and xylitol or furfural. Computer Aided Chemical Engineering, 2018, , 585-590.	0.5	28
1685	Catalytic conversion of furanic compounds over Ga-modified ZSM-5 zeolites as a route to biomass-derived aromatics. Green Chemistry, 2018, 20, 3818-3827.	9.0	42

#	Article	IF	Citations
1686	Role of enhanced solubility in esterification of 2,5-furandicarboxylic acid with ethylene glycol at reduced temperatures: energy efficient synthesis of poly(ethylene 2,5-furandicarboxylate). Reaction Chemistry and Engineering, 2018, 3, 447-453.	3.7	23
1687	Competition and miscibility of isodimorphism and their effects on band spherulites and mechanical properties of poly(butylene succinate-co-cis-butene succinate) unsaturated aliphatic copolyesters. Polymer, 2018, 150, 52-63.	3.8	30
1688	A comparative study for the organic byproducts from hydrothermal carbonizations of sugarcane bagasse and its bio-refined components cellulose and lignin. PLoS ONE, 2018, 13, e0197188.	2.5	19
1689	Elektrokatalytische Oxidation von 5â€(Hydroxymethyl)furfural an Nickelborid mit groÃŸer OberflÃche. Angewandte Chemie, 2018, 130, 11631-11636.	2.0	50
1690	Mechanistic insights into hydrodeoxygenation of phenol on bimetallic phosphide catalysts. Catalysis Science and Technology, 2018, 8, 4083-4096.	4.1	31
1691	Synthesis and properties of soybean oil-based biodegradable polyurethane films. Progress in Organic Coatings, 2018, 123, 261-266.	3.9	53
1692	Aromatic polyesters from biosuccinic acid. Polymer Chemistry, 2018, 9, 4113-4119.	3.9	30
1693	Biomass Promises: A Bumpy Road to a Renewable Economy. Current Green Chemistry, 2018, 5, 47-59.	1.1	15
1694	Mechanocatalytic Depolymerization of Cellulose With Perfluorinated Sulfonic Acid Ionomers. Frontiers in Chemistry, 2018, 6, 74.	3.6	19
1695	Improving the production of maleic acid from biomass: TS-1 catalysed aqueous phase oxidation of furfural in the presence of Î³-valerolactone. Green Chemistry, 2018, 20, 2845-2856.	9.0	58
1696	Aerobic Oxidation of 5â€(Hydroxymethyl)furfural Cyclic Acetal Enables Selective Furanâ€2,5â€dicarboxylic Acid Formation with CeO₂â€Supported Gold Catalyst. Angewandte Chemie - International Edition, 2018, 57, 8235-8239.	13.8	163
1697	Valorization of chitosan into levulinic acid by hydrothermal catalytic conversion with methanesulfonic acid. Korean Journal of Chemical Engineering, 2018, 35, 1290-1296.	2.7	20
1698	Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. ACS Catalysis, 2018, 8, 5533-5541.	11.2	340
1699	Catalytic conversion of hemicellulosic sugars derived from biomass to levulinic acid. Catalysis Communications, 2018, 117, 19-25.	3.3	40
1700	Microwave-assisted valorization of pig bristles: towards visible light photocatalytic chalcocite composites. Green Chemistry, 2018, 20, 3001-3007.	9.0	20
1701	The Effect of Cofed Species on the Kinetics of Catalytic Methyl Lactate Dehydration on NaY. ACS Catalysis, 2018, 8, 9066-9078.	11.2	11
1702	Efficient Synthesis of 2,5-Furandicarboxylic Acid from Furfural Based Platform through Aqueous-Phase Carbonylation. ACS Sustainable Chemistry and Engineering, 2018, 6, 13192-13198.	6.7	22
1703	Production of hemicellulosic sugars from sugarcane bagasse via steam explosion employing industrially feasible conditions: Pilot scale study. Bioresource Technology Reports, 2018, 3, 138-146.	2.7	40

#	Article	IF	Citations
1704	Improving Selectivity of Toluic Acid from Biomass-Derived Coumalic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 12855-12864.	6.7	11
1705	Diversification of the forest industries: role of new wood-based products. Canadian Journal of Forest Research, 2018, 48, 1417-1432.	1.7	102
1706	Lowâ€Temperature Continuousâ€Flow Dehydration of Xylose Over Waterâ€Tolerant Niobiaâ€"Titania Heterogeneous Catalysts. ChemSusChem, 2018, 11, 3649-3660.	6.8	20
1707	Stepwise pretreatment of aqueous ammonia and ethylenediamine improve enzymatic hydrolysis of corn stover. Industrial Crops and Products, 2018, 124, 201-208.	5.2	21
1708	Chemocatalytic Conversion of Cellulose into Key Platform Chemicals. International Journal of Polymer Science, 2018, 2018, 1-21.	2.7	21
1709	The effect of meâ€substituents of 1,4â€butanediol analogues on the thermal properties of biobased polyesters. Journal of Polymer Science Part A, 2018, 56, 1903-1906.	2.3	9
1710	A novel microwave-assisted hydrothermal route for the synthesis of Zn_xTPA/Î³-Al₂O₃for conversion of carbohydrates into 5-hydroxymethylfurfural. RSC Advances, 2018, 8, 28461-28471.	3.6	13
1711	Early Transition Metal Doped Tungstite as an Effective Catalyst for Glucose Upgrading to 5-Hydroxymethylfurfural. Catalysis Letters, 2018, 148, 3093-3101.	2.6	16
1712	Tailoring the 3D Structure of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. ChemNanoMat, 2018, 4, 1125-1132.	2.8	17
1713	Room Temperature Chemoselective Deoxygenation of Aromatic Ketones and Aldehydes Promoted by a Tandem Pd/TiO₂ + FeCl₃ Catalyst. Journal of Organic Chemistry, 2018, 83, 11067-11073.	3.2	19
1714	Dehydration of sorbitol into isosorbide over silver-exchanged phosphotungstic acid catalysts. Molecular Catalysis, 2018, 458, 19-24.	2.0	18
1715	Co-pyrolysis of woody biomass and plastic waste in both analytical and pilot scale. Journal of Analytical and Applied Pyrolysis, 2018, 134, 102-113.	5.5	73
1716	Multifunctional Cascade Catalysis of Itaconic Acid Hydrodeoxygenation to 3-Methyl-tetrahydrofuran. ACS Sustainable Chemistry and Engineering, 2018, 6, 9394-9402.	6.7	11
1717	Microwave-Assisted Conversion of Fructose to 5-Hydroxymethylfurfural Using Sulfonated Porous Carbon Derived from Biomass. Australian Journal of Chemistry, 2018, 71, 24.	0.9	9
1718	Aerobic oxidative esterification of 5-hydroxymethylfurfural to dimethyl furan-2,5-dicarboxylate by using homogeneous and heterogeneous PdCoBi/C catalysts under atmospheric oxygen. Green Chemistry, 2018, 20, 3050-3058.	9.0	58
1720	Furfural-Derived Diacid Prepared by Photoreaction for Sustainable Materials Synthesis. ACS Sustainable Chemistry and Engineering, 2018, 6, 8136-8141.	6.7	25
1721	Electrocatalytic valorisation of biomass derived chemicals. Catalysis Science and Technology, 2018, 8, 3216-3232.	4.1	105
1722	Versatile catalysis of iron: tunable and selective transformation of biomass-derived furfural in aliphatic alcohol. Green Chemistry, 2018, 20, 3092-3100.	9.0	29

#	Article	IF	Citations
1723	Lowâ€pH production of <scp>d</scp>â€lactic acid using newly isolated acid tolerant yeast <i>Pichia kudriavzevii</i> NG7. Biotechnology and Bioengineering, 2018, 115, 2232-2242.	3.3	62
1724	Catalytic Valorization of Furfural under Methane Environment. ACS Sustainable Chemistry and Engineering, 2018, 6, 8891-8903.	6.7	19
1725	Electrochemical Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid (FDCA) in Acidic Media Enabling Spontaneous FDCA Separation. ChemSusChem, 2018, 11, 2138-2145.	6.8	131
1726	From D-sorbitol to five-membered bis(cyclo-carbonate) as a platform molecule for the synthesis of different original biobased chemicals and polymers. Scientific Reports, 2018, 8, 9134.	3.3	36
1727	Carbonyl and ester Câ€“O bond hydrosilylation using Îº⁴-diimine nickel catalysts. Dalton Transactions, 2018, 47, 8807-8816.	3.3	26
1728	Rutheniumâ€Catalyzed Câ€H Arylation and Alkenylation of Furfural Imines with Boronates. European Journal of Organic Chemistry, 2018, 2018, 6101-6106.	2.4	21
1729	The Use of Synthetic Biology Tools in Biorefineries to Increase the Building Blocks Diversification. , 2018, , 41-72.		2
1730	Chemistry of Furfural and Furanic Derivatives. Sustainable Chemistry Series, 2018, , 1-30.	0.1	4
1731	Modified Î±,Î±â€²-trehalose and<scp>d</scp>-glucose: green monomers for the synthesis of vinyl copolymers. Royal Society Open Science, 2018, 5, 171313.	2.4	4
1732	Interface Colloidal Deposition of Nanoparticle Wire Structures. Particle and Particle Systems Characterization, 2018, 35, 1800098.	2.3	0
1733	Exploring the production of bio-succinic acid from apple pomace using an environmental approach. Chemical Engineering Journal, 2018, 350, 982-991.	12.7	48
1734	Solvent effect of gamma-valerolactone (GVL) on cellulose and biomass hydrolysis in hot-compressed GVL/water mixtures. Fuel, 2018, 232, 317-322.	6.4	31
1735	Formic Acidâ€Induced Controlledâ€Release Hydrolysis of Microalgae (<i>Scenedesmus</i>) to Lactic Acid over Snâ€Beta Catalyst. ChemSusChem, 2018, 11, 2492-2496.	6.8	24
1736	Chemical Transformations of Biomass-Derived C6-Furanic Platform Chemicals for Sustainable Energy Research, Materials Science, and Synthetic Building Blocks. ACS Sustainable Chemistry and Engineering, 2018, 6, 8064-8092.	6.7	232
1737	Conversion of Lignocellulosic Biomass Into Platform Chemicals for Biobased Polyurethane Application. Advances in Bioenergy, 2018, 3, 161-213.	1.3	51
1738	Homogeneous catalysed hydrogenation of HMF. Green Chemistry, 2018, 20, 3386-3393.	9.0	27
1739	Pyroauriteâ€based Mgï£¿Fe mixed oxides and their activity in aldol condensation of furfural with acetone: effect of oxide composition. Journal of Chemical Technology and Biotechnology, 2019, 94, 435-445.	3.2	18
1740	The Biorefinery Approach. , 2019, , 1383-1412.		1

#	Article	IF	Citations
1741	Simultaneous production of glucose, furfural, and ethanol organosolv lignin for total utilization of high recalcitrant biomass by organosolv pretreatment. Renewable Energy, 2019, 130, 952-960.	8.9	100
1742	The thermal decomposition of furfural: molecular chemistry unraveled. Proceedings of the Combustion Institute, 2019, 37, 445-452.	3.9	16
1743	Novel and efficient cobalt catalysts synthesized by one-step solution phase reduction for the conversion of biomass derived ethyl levulinate. Catalysis Today, 2019, 319, 145-154.	4.4	16
1744	Selective Conversion of Furoic Acid Derivatives to Multiâ€Substituted Furanacrylate by a Ruthenium Catalyst. ChemCatChem, 2019, 11, 5124-5130.	3.7	11
1745	Thermodynamic study on levulinic acid in NaCl, (C2H5)4NI and mixed MgCl2/NaCl and CaCl2/NaCl aqueous solutions at Tâ€‾=â€‾298.15â€‾K. Journal of Chemical Thermodynamics, 2019, 139, 105870.	2.0	2
1746	Catalytic Synthesis of 2,5â€Furandicarboxylic Acid from Concentrated 2,5â€Diformylfuran Mediated by <i>N</i>â€hydroxyimides under Mild Conditions. Chemistry - an Asian Journal, 2019, 14, 3329-3334.	3.3	8
1747	Biotechnological Application of Non-conventional Yeasts for Xylose Valorization. , 2019, , 23-74.		8
1748	Photoelectrochemical cells for solar hydrogen production: Challenges and opportunities. APL Materials, 2019, 7, .	5.1	119
1749	Hydrophobilization of Furan-Containing Polyurethanes via Dielsâ€"Alder Reaction with Fatty Maleimides. Polymers, 2019, 11, 1274.	4.5	2
1750	Bio-based Unsaturated Polyesters. , 2019, , 515-555.		5
1751	Biorefinery Engineering. , 2019, , 879-892.		0
1752	Reaction pathways and selectivity in chemo-catalytic conversion of biomass-derived carbohydrates to high-value chemicals: A review. Fuel Processing Technology, 2019, 196, 106162.	7.2	64
1753	Site-directed mutagenesis and stability of the carboxylic acid reductase MAB4714 from Mycobacterium abscessus. Journal of Biotechnology, 2019, 303, 72-79.	3.8	15
1754	Kinetics and Mechanism of Catalytic Oxidation of 5-Methylfurfural to 2,5-Furandicarboxylic Acid with Co/Mn/Br Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 19009-19021.	3.7	12
1755	Synthesis of 5â€hydroxymethylfurfural from fructose and inulin catalyzed by magneticallyâ€recoverable Fe 3 O 4 @SiO 2 @TiO 2 â€"HPW nanoparticles. Journal of Chemical Technology and Biotechnology, 2019, 94, 3393-3402.	3.2	15
1756	Reaction of Glycerol with Trimethyl Orthoformate: Towards the Synthesis of New Glycerol Derivatives. Catalysts, 2019, 9, 534.	3.5	2
1757	Liquid-phase synthesis of butyl levulinate with simultaneous water removal catalyzed by acid ion exchange resins. Journal of Industrial and Engineering Chemistry, 2019, 78, 222-231.	5.8	13
1758	The potency of Î³-valerolactone as bio-sourced polar aprotic organic medium for the electrocarboxlation of furfural by CO2. Journal of Electroanalytical Chemistry, 2019, 848, 113257.	3.8	7

#	Article	IF	Citations
1759	Formic acid as a hydrogen source for the iridium-catalyzed reductive amination of levulinic acid and 2-formylbenzoic acid. Catalysis Science and Technology, 2019, 9, 4077-4082.	4.1	21
1760	Selective oxidation of glycerol in a base-free aqueous solution: A short review. Chinese Journal of Catalysis, 2019, 40, 1020-1034.	14.0	84
1761	Highly selective conversion of glyceric acid to 3-iodopropionic acid by hydriodic acid mediated hydrogenation. Green Chemistry, 2019, 21, 4434-4442.	9.0	12
1762	Highâ€Yield 5â€Hydroxymethylfurfural Synthesis from Crude Sugar Beet Juice in a Biphasic Microreactor. ChemSusChem, 2019, 12, 4304-4312.	6.8	28
1763	Biogas Production by Anaerobic Digestion: Status and Perspectives. , 2019, , 763-778.		12
1764	Catalytic Approaches to Monomers for Polymers Based on Renewables. ACS Catalysis, 2019, 9, 8012-8067.	11.2	146
1765	Continuous flow upgrading of glycerol toward oxiranes and active pharmaceutical ingredients thereof. Green Chemistry, 2019, 21, 4422-4433.	9.0	39
1766	A metrics-based approach to preparing sustainable membranes: application to ultrafiltration. Green Chemistry, 2019, 21, 4457-4469.	9.0	23
1767	Esterification of glycerol with acetic acid over SO3H-functionalized phenolic resin. Fuel, 2019, 255, 115842.	6.4	42
1768	Osmotic coefficients and activity coefficients in binary water/5-(hydroxymethyl)furfural and in ternary water/5-(hydroxymethyl)furfural/salt solutions at 298.15â€¯K. Journal of Chemical Thermodynamics, 2019, 139, 105878.	2.0	4
1769	Dissolution of cellulose in ionic liquids and their mixed cosolvents: A review. Sustainable Chemistry and Pharmacy, 2019, 13, 100162.	3.3	76
1770	3-BocNH-ABNO-catalyzed aerobic oxidation of alcohol at room temperature and atmospheric pressure. Tetrahedron Letters, 2019, 60, 150994.	1.4	8
1771	Economic performance and GHG emission intensity of sugarcaneâ€•and eucalyptusâ€derived biofuels and biobased chemicals in Brazil. Biofuels, Bioproducts and Biorefining, 2019, 13, 950-977.	3.7	17
1772	One-pot selective conversion of lignocellulosic biomass into furfural and co-products using aqueous choline chloride/methyl isobutyl ketone biphasic solvent system. Bioresource Technology, 2019, 289, 121708.	9.6	45
1773	Formic acid, a biomass-derived source of energy and hydrogen for biomass upgrading. Energy and Environmental Science, 2019, 12, 2646-2664.	30.8	193
1774	A new triazine-thiophene based porous organic polymer as efficient catalyst for the synthesis of chromenes via multicomponent coupling and catalyst support for facile synthesis of HMF from carbohydrates. Molecular Catalysis, 2019, 475, 110483.	2.0	22
1775	Source-Sink Relationship of Sugarcane Energy Production at the Sugar Mills. , 2019, , 349-388.		2
1776	Highly Selective Oxidation of 5-Hydroxymethylfurfural to 5-Hydroxymethyl-2-Furancarboxylic Acid by a Robust Whole-Cell Biocatalyst. Catalysts, 2019, 9, 526.	3.5	26

#	Article	IF	Citations
1777	The amazing potential of fungi: 50 ways we can exploit fungi industrially. Fungal Diversity, 2019, 97, 1-136.	12.3	459
1778	Mechanistic Insights into the BrÃ¸nsted Acid-Catalyzed Dehydration of Î²-<scp>d</scp>-Glucose to 5-Hydroxymethylfurfural under Ambient and Subcritical Conditions. ACS Catalysis, 2019, 9, 7250-7263.	11.2	32
1779	Solvent issues in the Baylis-Hillman reaction of 5-hydroxymethyl furfural (HMF) and 5-glucosyloxymethyl furfural (GMF). Towards no-solvent conditions. Pure and Applied Chemistry, 2019, 91, 1149-1158.	1.9	2
1780	Bimetallic AuCu nanoparticles supported on CeO2 as selective catalysts for glycerol conversion to lactic acid in aqueous basic medium. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	17
1781	Production of levulinic acid from glucose in sulfolane/water mixtures. Chemical Engineering Research and Design, 2019, 148, 291-297.	5.6	25
1782	Swelling by Hydrochloric Acid Partially Retains Cellulose-I Type Allomorphic Ultrastructure But Enhances Susceptibility toward Cellulase Hydrolysis Such as Highly Amorphous Cellulose. ACS Symposium Series, 2019, , 69-88.	0.5	1
1783	Solventâ€Free Production of Isosorbide from Sorbitol Catalyzed by a Polymeric Solid Acid. ChemSusChem, 2019, 12, 4986-4995.	6.8	18
1784	Oneâ€Pot Enzyme Cascade for Controlled Synthesis of Furancarboxylic Acids from 5â€Hydroxymethylfurfural by H₂O₂ Internal Recycling. ChemSusChem, 2019, 12, 4764-4768.	6.8	45
1785	Efficient Continuous Production of the Biofuel Additive 5â€(tâ€Butoxymethyl) Furfural from 5â€Hydroxymethylfurfural. Energy Technology, 2019, 7, 1900780.	3.8	11
1786	Co-Immobilization of Tri-Enzymes for the Conversion of Hydroxymethylfurfural to 2,5-Diformylfuran. Molecules, 2019, 24, 3648.	3.8	23
1787	Investigation of solvent effects in the hydrodeoxygenation of levulinic acid to Î³-valerolactone over Ru catalysts. Journal of Catalysis, 2019, 379, 164-179.	6.2	42
1788	Intrinsically flame retardant bio-based epoxy thermosets: A review. Composites Part B: Engineering, 2019, 179, 107487.	12.0	124
1789	Novel high Tg fully biobased poly(hexamethylene-co-isosorbide-2,5-furan dicarboxylate) copolyesters: Synergistic effect of isosorbide insertion on thermal performance enhancement. Polymer Degradation and Stability, 2019, 169, 108983.	5.8	44
1790	A review on commercial-scale high-value products that can be produced alongside cellulosic ethanol. Biotechnology for Biofuels, 2019, 12, 240.	6.2	343
1791	In-situ synthesis, thermal and mechanical properties of biobased poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 187 Td (2,5-furanc 121, 109266.	5.4	25
1792	Biomass derived epoxy systems: From reactivity to final properties. Materials Today Communications, 2019, 21, 100683.	1.9	17
1793	Conversion of levoglucosan to glucose using an acidic heterogeneous Amberlyst 16 catalyst: Kinetics and packed bed measurements. Chemical Engineering Research and Design, 2019, 152, 193-200.	5.6	7
1794	Catalytic Low-Temperature Dehydration of Fructose to 5-Hydroxymethylfurfural Using Acidic Deep Eutectic Solvents and Polyoxometalate Catalysts. Frontiers in Chemistry, 2019, 7, 661.	3.6	44

#	Article	IF	Citations
1795	Preparation, identification, and activity evaluation of antioxidant peptides from protein hydrolysate of corn germ meal. Journal of Food Processing and Preservation, 2019, 43, e14160.	2.0	10
1796	Self-disassembly of plant macromolecules. Mendeleev Communications, 2019, 29, 589-591.	1.6	3
1797	A Review on Styrene Substitutes in Thermosets and Their Composites. Polymers, 2019, 11, 1815.	4.5	28
1798	Zinc Complexes for PLA Formation and Chemical Recycling: Towards a Circular Economy. ChemSusChem, 2019, 12, 5233-5238.	6.8	53
1802	A marketâ€driven algorithm for the assessment of promising bioâ€based chemicals. AICHE Journal, 2019, 65, e16775.	3.6	2
1803	The Hydrolysis Equilibrium Effect of Water with Cu(II) Catalysts Used for the Selective Synthesis of Xylitol Monoacetals as Bioâ€Based Surfactants. ChemistrySelect, 2019, 4, 11262-11267.	1.5	1
1804	Ligninolytic behavior of the white-rot fungus Stereum ostrea under influence of culture conditions, inducers and chlorpyrifos. 3 Biotech, 2019, 9, 424.	2.2	6
1805	Enhancing the properties of poly(propylene succinate) by the incorporation of crystallizable symmetrical amido diols. European Polymer Journal, 2019, 120, 109195.	5.4	15
1806	Transesterification by air/moisture-tolerant bifunctional organocatalyst to produce â€˜nonstrainedâ€™ Î³-butyrolactone-based aliphatic copolyesters: Turning a bane into a boon. European Polymer Journal, 2019, 121, 109277.	5.4	13
1807	BISSO: Biomass Interface for Superstructure Simulation and Optimization. Processes, 2019, 7, 645.	2.8	0
1808	The Dark Side of Biomass Valorization: A Laboratory Experiment To Understand Humin Formation, Catalysis, and Green Chemistry. Journal of Chemical Education, 2019, 96, 3030-3037.	2.3	22
1809	Integrating Density Functional Theory Calculations with Vibrational and Nuclear Magnetic Resonance Spectroscopy. ACS Symposium Series, 2019, , 89-102.	0.5	0
1810	Synthesis and Thermal Properties of Bio-Based Copolyesters from the Mixtures of 2,5- and 2,4-Furandicarboxylic Acid with Different Diols. ACS Sustainable Chemistry and Engineering, 2019, 7, 18505-18516.	6.7	25
1811	Thermal Properties of Biobased Polymers: Furandicarboxylic Acid (FDCA)-Based Polyesters. Advances in Polymer Science, 2019, , 189-217.	0.8	19
1812	Green CO₂-Assisted Synthesis of Mono- and Bimetallic Pd/Pt Nanoparticles on Porous Carbon Fabricated from Sorghum for Highly Selective Hydrogenation of Furfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 15339-15345.	6.7	55
1813	5-Hydroxymethylfurfural-Derived Boron-Dipyrromethene Immobilized on Resin Support as a Sustainable Catalyst for Câ€"H Arylation of Heterocycles. ACS Omega, 2019, 4, 14458-14465.	3.5	4
1814	Structure-based Mutational Studies of D-3-hydroxybutyrate Dehydrogenase for Substrate Recognition of Aliphatic Hydroxy Acids with a Variable Length of Carbon Chain. Biotechnology and Bioprocess Engineering, 2019, 24, 605-612.	2.6	5
1815	Synergies in the co-location of food manufacturing and biorefining. Food and Bioproducts Processing, 2019, 117, 340-359.	3.6	16

#	Article	IF	Citations
1816	Esterification of furfuryl alcohol to butyl levulinate over ion-exchange resins. Fuel, 2019, 257, 116010.	6.4	37
1817	Highly transparent films of new copolyesters derived from terephthalic and 2,4-furandicarboxylic acids. Polymer Chemistry, 2019, 10, 5324-5332.	3.9	22
1818	Solvolysis of Sugarcane Bagasse: Strategy To Increase the Yields of Secondary Fuel Precursors. Industrial & Engineering Chemistry Research, 2019, 58, 17736-17745.	3.7	3
1819	A kinetic study on the hydrolysis of corncob residues to levulinic acid in the FeCl3â€"NaCl system. Cellulose, 2019, 26, 8313-8323.	4.9	18
1820	Complete oxidation of hydroxymethylfurfural to furandicarboxylic acid by aryl-alcohol oxidase. Biotechnology for Biofuels, 2019, 12, 217.	6.2	50
1821	Rapid Microwave-Assisted Polyol Synthesis of TiO2-Supported Ruthenium Catalysts for Levulinic Acid Hydrogenation. Catalysts, 2019, 9, 748.	3.5	7
1822	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. Nano Today, 2019, 28, 100763.	11.9	67
1823	Effective production of succinic acid from coconut water (Cocos nucifera) by metabolically engineered Escherichia coli with overexpression of Bacillus subtilis pyruvate carboxylase. Biotechnology Reports (Amsterdam, Netherlands), 2019, 24, e00378.	4.4	14
1824	Metal-organic frameworks as catalysts for sugar conversion into platform chemicals: State-of-the-art and prospects. Coordination Chemistry Reviews, 2019, 401, 213064.	18.8	45
1825	Solvent Tuning the Selective Hydrogenation of Levulinic Acid into Biofuels over Ni-Metal Organic Framework-Derived Catalyst. ACS Applied Energy Materials, 2019, 2, 6979-6983.	5.1	29
1826	An Abbreviated Historical and Structural Introduction to Lignocellulose. ACS Symposium Series, 2019, , 1-15.	0.5	7
1827	Exploring Molecular Mechanisms of Cosolvent Enhanced Biomass Deconstruction: An Overview of Recent Progress. ACS Symposium Series, 2019, , 103-117.	0.5	1
1828	Metabolic engineering with ATP-citrate lyase and nitrogen source supplementation improves itaconic acid production in Aspergillus niger. Biotechnology for Biofuels, 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. ACS Omega, 2019, 4, 16972-16979.	3.5	24
1830	Dynamics of Lignin: Molecular Dynamics and Neutron Scattering. ACS Symposium Series, 2019, , 49-67.	0.5	1
1831	Fixation of CO2, electron donor and redox microenvironment regulate succinic acid production in Citrobacter amalonaticus. Science of the Total Environment, 2019, 695, 133838.	8.0	27
1832	Measurement of Physicochemical Properties of Lignin. ACS Symposium Series, 2019, , 33-47.	0.5	3
1833	Local initiatives and global regimes â€" Multi-scalar transition dynamics in the chemical industry. Journal of Cleaner Production, 2019, 216, 172-183.	9.3	37

#	Article	IF	Citations
1834	An innovative synthesis pathway to benzodioxanes: the peculiar reactivity of glycerol carbonate and catechol. Green Chemistry, 2019, 21, 329-338.	9.0	21
1835	Selective Oxidation of 5-Hydroxymethylfurfural to 5-Hydroxymethyl-2-furancarboxylic Acid Using <i>Gluconobacter oxydans</i>. ACS Sustainable Chemistry and Engineering, 2019, 7, 4406-4413.	6.7	54
1836	Multiple iron reduction by methoxylated phenolic lignin structures and the generation of reactive oxygen species by lignocellulose surfaces. International Journal of Biological Macromolecules, 2019, 128, 340-346.	7.5	24
1837	Proteinâ€Rich Biomass Waste as a Resource for Future Biorefineries: State of the Art, Challenges, and Opportunities. ChemSusChem, 2019, 12, 1272-1303.	6.8	60
1838	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. Journal of the American Chemical Society, 2019, 141, 3116-3120.	13.7	123
1839	A facile method to prepare high molecular weight bio-renewable poly(Î³-butyrolactone) using a strong base/urea binary synergistic catalytic system. Polymer Chemistry, 2019, 10, 1231-1237.	3.9	62
1840	Beyond ethanol, sugar, and electricity: a critical review of product diversification in Brazilian sugarcane mills. Biofuels, Bioproducts and Biorefining, 2019, 13, 809-821.	3.7	50
1841	Algal biorefinery: A sustainable approach to valorize algal-based biomass towards multiple product recovery. Bioresource Technology, 2019, 278, 346-359.	9.6	198
1842	Bio-Based Chemicals: Selective Aerobic Oxidation of Tetrahydrofuran-2,5-dimethanol to Tetrahydrofuran-2,5-dicarboxylic Acid Using Hydrotalcite-Supported Gold Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 4647-4656.	6.7	19
1843	Effect of functional groups in acid constituent of deep eutectic solvent for extraction of reactive lignin. Bioresource Technology, 2019, 281, 359-366.	9.6	163
1844	The hydrogenation of levulinic acid to Î³-valerolactone over Cuâ€"ZrO2 catalysts prepared by a pH-gradient methodology. Journal of Energy Chemistry, 2019, 36, 15-24.	12.9	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. Renewable Energy, 2019, 138, 971-979.	8.9	21
1846	Regioselective Hydrogenation of Itaconic Acid to Î³â€Isovalerolactone by Transitionâ€Metal Nanoparticle Catalysts. ChemSusChem, 2019, 12, 973-977.	6.8	4
1847	Towards an energy efficient chemistry. Switching from fossil to bio-based products in a life cycle perspective. Energy, 2019, 170, 720-729.	8.8	33
1848	Applications of lignin-derived catalysts for green synthesis. Green Energy and Environment, 2019, 4, 210-244.	8.7	91
1849	The route towards sustainable production of ethylene glycol from a renewable resource, biodiesel waste: a review. Catalysis Science and Technology, 2019, 9, 567-577.	4.1	44
1850	Synthesis of levulinic acid based poly(amine-<i>co</i>-ester)s. Green Chemistry, 2019, 21, 123-128.	9.0	18
1851	Conversion of levulinic acid to Î³-valerolactone over ultra-thin TiO₂ nanosheets decorated with ultrasmall Ru nanoparticle catalysts under mild conditions. Green Chemistry, 2019, 21, 770-774.	9.0	55

#	Article	IF	Citations
1852	Selective conversion of furans to <i>p</i>â€xylene with surfaceâ€modified zeolites. Journal of Chemical Technology and Biotechnology, 2019, 94, 2876-2887.	3.2	22
1853	Economic analysis of a horizontal diabatic separation system. Chemical Engineering Research and Design, 2019, 147, 709-720.	5.6	1
1854	Production of a renewable 1,3-diene containing a functional group from a furfuralâ€“acetone adduct in a fixed-bed reactor. Green Chemistry, 2019, 21, 3911-3919.	9.0	5
1855	The aza-Michael reaction: towards semi-crystalline polymers from renewable itaconic acid and diamines. Polymer Chemistry, 2019, 10, 4049-4058.	3.9	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. IOP Conference Series: Materials Science and Engineering, 2019, 543, 012006.	0.6	1
1857	Study of Static Steam Explosion of Citrus sinensis Juice Processing Waste for the Isolation of Sugars, Pectic Hydrocolloids, Flavonoids, and Peel Oil. Food and Bioprocess Technology, 2019, 12, 1293-1303.	4.7	10
1858	Growth-coupled bioconversion of levulinic acid to butanone. Metabolic Engineering, 2019, 55, 92-101.	7.0	16
1859	Clean Catalytic Oxidation for Derivatization of Key Biobased Platform Chemicals: Ethanol, Glycerol, and Hydroxymethyl Furfural. Industrial & Engineering Chemistry Research, 2019, 58, 16077-16095.	3.7	27
1860	Selective conversion of 5-hydroxymethylfurfural to diketone derivatives over Beta zeolite-supported Pd catalysts in water. Journal of Catalysis, 2019, 375, 224-233.	6.2	31
1861	Levulinic Acid as a Versatile Building Block for Plasticizer Design. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	17
1862	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. Green Chemistry, 2019, 21, 4090-4099.	9.0	62
1863	POM@surf(n)/CeO2 electrospun nanofibers for the facile oxidation of 5-HMF to DFF. Applied Catalysis A: General, 2019, 583, 117122.	4.3	19
1864	Selective aerobic oxidation of glycerol over zirconium phosphate-supported vanadium catalyst. Molecular Catalysis, 2019, 474, 110404.	2.0	14
1865	Electrochemical Conversion of Biomass-Based Oxygenated Compounds. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 85-104.	6.8	55
1866	Recent development of production technology of diesel- and jet-fuel-range hydrocarbons from inedible biomass. Fuel Processing Technology, 2019, 193, 404-422.	7.2	83
1867	Bio-based building blocks from 5-hydroxymethylfurfural <i>via</i> 1-hydroxyhexane-2,5-dione as intermediate. Chemical Science, 2019, 10, 6024-6034.	7.4	59
1868	Stabilities, Regeneration Pathways, and Electrocatalytic Properties of Nitroxyl Radicals for the Electrochemical Oxidation of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 11138-11149.	6.7	57
1869	Selective Conversion of Furfural to Cyclopentanone and Cyclopentanol by Magnetic Cuâ€Fe₃O₄ NPs Catalyst. ChemistrySelect, 2019, 4, 5845-5852.	1.5	15

#	Article	IF	Citations
1870	Preparation of Highly Active Monometallic Rhenium Catalysts for Selective Synthesis of 1,4â€Butanediol from 1,4â€Anhydroerythritol. ChemSusChem, 2019, 12, 3615-3626.	6.8	37
1871	Additive-free photo-assisted selective partial oxidation at ambient conditions of 5-hydroxymethylfurfural by manganese (IV) oxide nanorods. Applied Catalysis B: Environmental, 2019, 256, 117803.	20.2	74
1872	Purolite-Catalyzed Etherification of 2,5-Bis(hydroxymethyl)furan: A Systematic Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 10221-10226.	6.7	27
1873	Metal-functionalized carbon nanotubes for biomass conversion: base-free highly efficient and recyclable catalysts for aerobic oxidation of 5-hydroxymethylfurfural. New Journal of Chemistry, 2019, 43, 10601-10609.	2.8	13
1874	Bioproduction of fumaric acid: an insight into microbial strain improvement strategies. Critical Reviews in Biotechnology, 2019, 39, 817-834.	9.0	50
1875	Efficient Electrochemical Hydrogenation of 5â€Hydroxymethylfurfural to 2,5â€Bis(hydroxymethyl)furan on Agâ€Displaced Nanotextured Cu Catalysts. ChemElectroChem, 2019, 6, 4739-4749.	3.4	26
1876	Cu/Cu₂O-MC (MC = Mesoporous Carbon) for Highly Efficient Hydrogenation of Furfural to Furfuryl Alcohol under Visible Light. ACS Sustainable Chemistry and Engineering, 2019, 7, 11485-11492.	6.7	35
1877	A tunable precious metal-free system for selective oxidative esterification of biobased 5-(hydroxymethyl)furfural. Green Chemistry, 2019, 21, 3464-3468.	9.0	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. Food Chemistry, 2019, 295, 662-670.	8.2	9
1879	A review on progresses and performances in distillery stillage management. Journal of Cleaner Production, 2019, 232, 295-307.	9.3	29
1880	Zeolite-supported metal catalysts for selective hydrodeoxygenation of biomass-derived platform molecules. Green Chemistry, 2019, 21, 3744-3768.	9.0	200
1881	Biomass-Derived Production of Itaconic Acid as a Building Block in Specialty Polymers. Polymers, 2019, 11, 1035.	4.5	88
1882	Techno-economic analysis of chemically catalysed lignocellulose biorefineries at a typical sugar mill: Sorbitol or glucaric acid and electricity co-production. Bioresource Technology, 2019, 289, 121635.	9.6	43
1883	Improved mechanical properties of flexible bio-based polymeric materials derived from epoxy mono/di-abietic acid and soyabean oil. Industrial Crops and Products, 2019, 138, 111437.	5.2	12
1884	Continuous flow hydrogenation of methyl and ethyl levulinate: an alternative route to <i>Î³</i> -valerolactone production. Royal Society Open Science, 2019, 6, 182233.	2.4	11
1885	When Will 5â€Hydroxymethylfurfural, the â€œSleeping Giantâ€• of Sustainable Chemistry, Awaken?. ChemSusChem, 2019, 12, 2976-2982.	6.8	154
1886	Directional liquefaction of lignocellulosic biomass for value added monosaccharides and aromatic compounds. Industrial Crops and Products, 2019, 135, 251-259.	5.2	19
1887	Insights into the Synthesis of Ethyl Levulinate under Microwave and Nonmicrowave Heating Conditions. Industrial & Engineering Chemistry Research, 2019, 58, 16055-16064.	3.7	25

#	Article	IF	Citations
1888	Advances in catalytic conversion of lignocellulose to chemicals and liquid fuels. Journal of Energy Chemistry, 2019, 36, 74-86.	12.9	94
1889	Biomass Derivative Valorization Using Nano Core-Shell Magnetic Materials Based on Keggin-Heteropolyacids: Levulinic Acid Esterification Kinetic Study with N-Butanol. Journal of Nanomaterials, 2019, 2019, 1-14.	2.7	12
1890	Reflection on the research on and implementation of biorefinery systems â€“ a systematic literature review with a focus on feedstock. Biofuels, Bioproducts and Biorefining, 2019, 13, 1347-1364.	3.7	37
1891	Mechanistic Approaches toward Rational Design of a Heterogeneous Catalyst for Ring-Opening and Deoxygenation of Biomass-Derived Cyclic Compounds. ACS Sustainable Chemistry and Engineering, 2019, 7, 10165-10181.	6.7	30
1892	Tailoring Sn-SBA-15 properties for catalytic isomerization of glucose. Applied Catalysis A: General, 2019, 581, 37-42.	4.3	22
1893	Reductive Amination/Cyclization of Methyl Levulinate with Aspartic Acid: Towards Renewable Polyesters with a Pendant Lactam Unit. ChemSusChem, 2019, 12, 3370-3376.	6.8	12
1894	Alternative Recovery and Valorization of Metals from Exhausted Catalytic Converters in a New Smart Polymetallic Catalyst. ChemistrySelect, 2019, 4, 4624-4632.	1.5	0
1895	Synthesis of hydroxymethylfurfural and furfural from hardwood and softwood pulp using ferric sulphate as catalyst. Frontiers of Chemical Science and Engineering, 2019, 13, 531-542.	4.4	17
1896	CuZnCoOx multifunctional catalyst for in situ hydrogenation of 5-hydroxymethylfurfural with ethanol as hydrogen carrier. Journal of Catalysis, 2019, 373, 314-321.	6.2	50
1897	The outlook of the production of advanced fuels and chemicals from integrated oil palm biomass biorefinery. Renewable and Sustainable Energy Reviews, 2019, 109, 386-411.	16.4	128
1898	Continuousâ€Flow Oxidation of HMF to FDCA by Resinâ€Supported Platinum Catalysts in Neat Water. ChemSusChem, 2019, 12, 2558-2563.	6.8	56
1899	Trade-Off between Acidic Sites and Crystallinity of the WO₃â€“TiO₂ Catalyst toward Dehydration of Glucose to 5-Hydroxymethylfurfural. Energy & Fuels, 2019, 33, 5293-5303.	5.1	40
1900	Highly selective synthesis under benign reaction conditions of furfural dialkyl acetal using SnCl₂ as a recyclable catalyst. New Journal of Chemistry, 2019, 43, 8606-8612.	2.8	23
1901	Structure and Mechanism of Titania-Supported Platinumâ€“Molybdenum Catalyst for Hydrodeoxygenation of 2-Furancarboxylic Acid to Valeric Acid. ACS Sustainable Chemistry and Engineering, 2019, 7, 9601-9612.	6.7	20
1902	Synthesis of functionalized tetrahydrofuran derivatives from 2,5-dimethylfuran through cascade reactions. Green Chemistry, 2019, 21, 2601-2609.	9.0	4
1903	Noble and Base-Metal Nanoparticles Supported on Mesoporous Metal Oxides: Efficient Catalysts for the Selective Hydrogenation of Levulinic Acid to Î³-Valerolactone. Catalysis Letters, 2019, 149, 2807-2822.	2.6	23
1904	Salt effect on liquidâ€“liquid equilibria of tetrahydrofuran/water/5-hydroxymethylfurfural systems. Fluid Phase Equilibria, 2019, 493, 137-143.	2.5	15
1905	Pyrolysis of aquatic carbohydrates using CO2 as reactive gas medium: A case study of chitin. Energy, 2019, 177, 136-143.	8.8	17

#	Article	IF	Citations
1906	Selective hydroconversion of levulinic acid to Î³-valerolactone or 2-methyltetrahydrofuran over silica-supported cobalt catalysts. Catalysis Science and Technology, 2019, 9, 2291-2304.	4.1	55
1907	Influence of the Incorporation of Basic or Amphoteric Oxides on the Performance of Cu-Based Catalysts Supported on Sepiolite in Furfural Hydrogenation. Catalysts, 2019, 9, 315.	3.5	18
1908	Multiscale Modeling of (Hemi)cellulose Hydrolysis and Cascade Hydrotreatment of 5-Hydroxymethylfurfural, Furfural, and Levulinic Acid. Industrial & Engineering Chemistry Research, 2019, 58, 16018-16032.	3.7	72
1909	Influence of surface Lewis acid sites for the selective hydrogenation of levulinic acid to Î³-valerolactone over Niâ€"Cuâ€"Al mixed oxide catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 601-616.	1.7	11
1910	Direct electrochemical extraction increases microbial succinic acid production from spent sulphite liquor. Green Chemistry, 2019, 21, 2401-2411.	9.0	19
1911	Preparation of furans from catalytic conversion of corn stover in H2Oâ€"THF co-solvent system â€" The effects of acids combined with alkali metal cations. Journal of the Taiwan Institute of Chemical Engineers, 2019, 97, 105-111.	5.3	9
1912	Integrative process for sugarcane bagasse biorefinery to co-produce xylooligosaccharides and gluconic acid. Bioresource Technology, 2019, 282, 81-87.	9.6	94
1913	Synthesis of 1,3-Butadiene and Its 2-Substituted Monomers for Synthetic Rubbers. Catalysts, 2019, 9, 97.	3.5	37
1914	One-step fabrication of Ni-embedded hierarchically-porous carbon microspheres for levulinic acid hydrogenation. Chemical Engineering Journal, 2019, 369, 386-393.	12.7	53
1915	Difuranic Diols for Renewable Polymers with Pendent Furan Rings. ACS Sustainable Chemistry and Engineering, 2019, 7, 7035-7046.	6.7	20
1916	Applications of Dimethyl Carbonate for the Chemical Upgrading of Biosourced Platform Chemicals. ACS Sustainable Chemistry and Engineering, 2019, 7, 6471-6479.	6.7	73
1917	Highly selective hydrogenation of biomass-derived 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over an acidâ€"base bifunctional hafnium-based coordination polymer catalyst. Sustainable Energy and Fuels, 2019, 3, 1033-1041.	4.9	35
1918	Transformation of Glucose into Sorbitol on Raney Nickel Catalysts in the Absence of Molecular Hydrogen: Sugar Disproportionation vs Catalytic Hydrogen Transfer. Topics in Catalysis, 2019, 62, 570-578.	2.8	25
1919	Comparative analysis of key technologies for cellulosic ethanol production from Brazilian sugarcane bagasse at a commercial scale. Biofuels, Bioproducts and Biorefining, 2019, 13, 994-1014.	3.7	85
1920	Examining Acid Formation During the Selective Dehydration of Fructose to 5â€Hydroxymethylfurfural in Dimethyl Sulfoxide and Water. ChemSusChem, 2019, 12, 2211-2219.	6.8	35
1921	Biosynthesis of 2,5-furan dicarboxylic acid by Aspergillus flavus APLS-1: Process optimization and intermediate product analysis. Bioresource Technology, 2019, 284, 155-160.	9.6	30
1922	Electrocatalytic Upgrading of Phenolic Compounds Observed after Lignin Pyrolysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 8375-8386.	6.7	69
1923	Biofuel Synthesis from Sorbitol by Aqueous Phase Hydrodeoxygenation over Bifunctional Catalysts: In-depth Study of the Ruâ€"Pt/SiO2â€"Al2O3 Catalytic System. Catalysts, 2019, 9, 146.	3.5	4

#	Article	IF	Citations
1924	CFD Design of Hydrogenation Reactor for Transformation of Levulinic Acid to Î³-Valerolactone (GVL) by using High Boiling Point Organic Fluids. ChemEngineering, 2019, 3, 32.	2.4	4
1925	Selective synthesis of 2-furoic acid and 5-hydroxymethyl-2-furancarboxylic acid from bio-based furans by recombinant Escherichia coli cells. Molecular Catalysis, 2019, 469, 68-74.	2.0	37
1926	Post-synthesis Treatment of TS-1 with TPAOH: Effect of Hydrophobicity on the Liquid-Phase Oxidation of Furfural to Maleic Acid. Topics in Catalysis, 2019, 62, 560-569.	2.8	12
1927	Hydrothermal Dehydration of Monosaccharides Promoted by Seawater: Fundamentals on the Catalytic Role of Inorganic Salts. Frontiers in Chemistry, 2019, 7, 132.	3.6	11
1928	Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, III: Extended Study on Effect of Catalyst Type on Molecular Weight Increase. Polymers, 2019, 11, 438.	4.5	22
1929	Production of d-Lactate from Avocado Seed Hydrolysates by Metabolically Engineered Escherichia coli JU15. Fermentation, 2019, 5, 26.	3.0	9
1930	Approaches to Computational Strain Design in the Multiomics Era. Frontiers in Microbiology, 2019, 10, 597.	3.5	17
1931	A Robust Strategy for Sustainable Organic Chemicals Utilizing Bioprivileged Molecules. ChemSusChem, 2019, 12, 2970-2975.	6.8	17
1932	Activation of Heteroaromatic Câ€“H Bonds in Furan and 2,5-Dimethylfuran. Inorganic Chemistry, 2019, 58, 6008-6015.	4.0	7
1933	A Group Contribution Equation of State for Biorefineries. GCA-EOS Extension to Bioether Fuels and Their Mixtures with <i>n</i>-Alkanes. Journal of Chemical & Engineering Data, 2019, 64, 2170-2185.	1.9	3
1934	Harnessing the reactivity of poly(methylhydrosiloxane) for the reduction and cyclization of biomass to high-value products. Green Chemistry, 2019, 21, 2662-2669.	9.0	14
1935	Efficient catalytic conversion of corn stalk and xylose into furfural over sulfonated graphene in Î³-valerolactone. RSC Advances, 2019, 9, 10569-10577.	3.6	26
1936	Dialkyl Carbonates in the Green Synthesis of Heterocycles. Frontiers in Chemistry, 2019, 7, 300.	3.6	19
1938	Brillouin and NMR spectroscopic studies of aqueous dilutions of malicine: Determining the dilution range for transition from a â€œwater-in-DESâ€• system to a â€œDES-in-waterâ€• one. Journal of Molecular Liquids, 2019, 284, 175-181.	4.9	32
1939	Facile synthesis of Î³-valerolactone by transfer hydrogenation of methyl levulinate and levulinic acid over Ni/ZrO2. Catalysis Communications, 2019, 125, 52-55.	3.3	25
1940	Electrochemical cross-coupling of biogenic di-acids for sustainable fuel production. Green Chemistry, 2019, 21, 2334-2344.	9.0	32
1941	Bioreactors for succinic acid production processes. Critical Reviews in Biotechnology, 2019, 39, 571-586.	9.0	52
1942	Sustainable bio-based furan epoxy resin with flame retardancy. Polymer Chemistry, 2019, 10, 2370-2375.	3.9	54

#	Article	IF	Citations
1943	Essential Oils as Chemical Reagents in Heterocyclic Synthesis. Natural Product Communications, 2019, 14, 1934578X1901400.	0.5	2
1944	Efficient Production of Ethyl Levulinate from Furfuryl Alcohol Catalyzed by Modified Zirconium Phosphate. ChemistrySelect, 2019, 4, 3940-3947.	1.5	10
1945	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
1946	Influence of Anion and Cation Structure of Ionic Liquids on Carboxylic Acids Extraction. Frontiers in Chemistry, 2019, 7, 117.	3.6	13
1947	5-Hydroxymethylfurfural production from watermelon peel by microwave hydrothermal liquefaction. Energy, 2019, 174, 198-205.	8.8	31
1948	Exploiting the Synergetic Behavior of PtPd Bimetallic Catalysts in the Selective Hydrogenation of Glucose and Furfural. Catalysts, 2019, 9, 132.	3.5	17
1949	Switching the regioselectivity of two nitrilases toward succinonitrile by mutating the active center pocket key residues through a semi-rational engineering. Chemical Communications, 2019, 55, 2948-2951.	4.1	7
1950	Synthesis of Acrylonitrile from Renewable Lactic Acid. ChemSusChem, 2019, 12, 1653-1663.	6.8	15
1951	Optimization of Maleinized Linseed Oil Loading as a Biobased Compatibilizer in Poly(Butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 422	2.9	20
1952	The studies on chemoselective promiscuous activity of hydrolases on acylals transformations. Bioorganic Chemistry, 2019, 93, 102825.	4.1	7
1953	Sustainable processes for the catalytic synthesis of safer chemical substitutes of N-methyl-2-pyrrolidone. Molecular Catalysis, 2019, 466, 60-69.	2.0	27
1954	Chemicals from Biomass: Selective Synthesis of N-Substituted Furfuryl Amines by the One-Pot Direct Reductive Amination of Furanic Aldehydes. ACS Sustainable Chemistry and Engineering, 2019, 7, 6243-6250.	6.7	56
1955	Oneâ€step Conversion of Fructose to Furfuryl Alcohol in a Continuous Fixedâ€bed Reactor: The Important Role of Supports. ChemCatChem, 2019, 11, 2118-2125.	3.7	5
1956	Polymers derived from hemicellulosic parts of lignocellulosic biomass. Reviews in Environmental Science and Biotechnology, 2019, 18, 317-334.	8.1	57
1957	On the R&D Landscape Evolution in Catalytic Upgrading of Biomass. Studies in Surface Science and Catalysis, 2019, , 149-171.	1.5	2
1958	A fully bio-based polyimine vitrimer derived from fructose. Green Chemistry, 2019, 21, 1596-1601.	9.0	197
1959	Heteropolyacids supported on mesoporous AlSBA-15 as efficient catalysts for esterification of levulinic acid. Journal of Porous Materials, 2019, 26, 1335-1343.	2.6	21
1960	Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. ChemCatChem, 2019, 11, 2022-2042.	3.7	92

#	Article	IF	Citations
1961	From waste biomass to chemicals and energy <i>via</i> microwave-assisted processes. Green Chemistry, 2019, 21, 1202-1235.	9.0	103
1962	Innovation opportunities in the Brazilian sugar-energy sector. Journal of Cleaner Production, 2019, 218, 871-879.	9.3	22
1963	Catalytic production of levulinic acid from matured coconut water. IOP Conference Series: Materials Science and Engineering, 2019, 702, 012010.	0.6	0
1965	Thermal Properties of Bio-based Polymers. Advances in Polymer Science, 2019, , .	0.8	9
1966	An integrated strategy for the production of hydrocarbon fuels from lignocellulosic biomass. , 2019, , .		0
1967	Organic phase screening for inâ€stream reactive extraction of bioâ€based 3â€hydroxypropionic acid: biocompatibility and extraction performances. Journal of Chemical Technology and Biotechnology, 2019, 95, 1046.	3.2	9
1968	Biocatalytic Oxidation in Continuous Flow for the Generation of Carbohydrate Dialdehydes. ACS Catalysis, 2019, 9, 11658-11662.	11.2	36
1969	Mesoporous carbon and microporous zeolite supported Ru catalysts for selective levulinic acid hydrogenation into Î³-valerolactone. Catalysis for Sustainable Energy, 2019, 6, 38-50.	0.7	7
1970	Structural Studies of Deuterium-Labeled Switchgrass Biomass. ACS Symposium Series, 2019, , 17-32.	0.5	2
1971	Catalytic conversion of biomass-derived polyols into para-xylene over SiO₂-modified zeolites. Chinese Journal of Chemical Physics, 2019, 32, 513-520.	1.3	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). Polymer Chemistry, 2019, 10, 6131-6144.	3.9	19
1973	Selectively creating oxygen vacancies on PrCe/SiO₂ catalysts for the transformation of a furfuralâ€"acetone adduct into a functionalized 1,3-diene. Catalysis Science and Technology, 2019, 9, 6875-6883.	4.1	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. Green Chemistry, 2019, 21, 6012-6026.	9.0	107
1975	Selective hydrogenolysis of 2-furancarboxylic acid to 5-hydroxyvaleric acid derivatives over supported platinum catalysts. Green Chemistry, 2019, 21, 6133-6145.	9.0	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. Polymer Chemistry, 2019, 10, 5594-5601.	3.9	29
1977	Aqueous Carbonylation of Furfural-Derived 5-Bromofuroic Acid to 2,5-Furandicarboxylic Acid with Supported Palladium Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 22951-22957.	3.7	10
1978	Halloysite-Catalyzed Esterification of Bio-Mass Derived Acids. ACS Omega, 2019, 4, 19437-19441.	3.5	24
1979	Synthesis and Evaluation of Acidâ€base Biâ€functional MOFs Catalyst Supported on PVDF Membrane for Glucose Dehydration to 5â€HMF. ChemistrySelect, 2019, 4, 13182-13190.	1.5	9

#	Article	IF	Citations
1980	Organocatalytic Michael Addition to (D)-Mannitol-Derived Enantiopure Nitroalkenes: A Valuable Strategy for the Synthesis of Densely Functionalized Chiral Molecules. Molecules, 2019, 24, 4588.	3.8	2
1981	Direct Valorization of Lignocellulosic Biomass into Value-Added Chemicals by Polyoxometalate Catalyzed Oxidation under Mild Conditions. Industrial & Engineering Chemistry Research, 2019, 58, 22996-23004.	3.7	26
1982	Catalytic Conversion of Biomassâ€Derived Carbohydrates into Levulinic Acid Assisted by a Cationic Surface Active Agent. ChemistrySelect, 2019, 4, 13021-13024.	1.5	1
1983	A Nonâ€Noble Monometallic Catalyst Derived from Cuâ€“MOFs for Highly Selective Hydrogenation of 5â€Hydroxymethylfurfural to 2,5â€Dimethylfuran. ChemistrySelect, 2019, 4, 13517-13524.	1.5	20
1984	Organic Lewis pairs for selective copolymerization of epoxides with anhydrides to access sequence-controlled block copolymers. Green Chemistry, 2019, 21, 6123-6132.	9.0	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. Green Chemistry, 2019, 21, 6667-6684.	9.0	50
1986	Enzymatic synthesis of biobased aliphaticâ€“aromatic oligoesters using 5,5â€²-bis(hydroxymethyl)furoin as a building block. RSC Advances, 2019, 9, 29044-29050.	3.6	11
1987	Efficient production of 5-hydroxymethylfurfural from fructose over CuAPO-5 molecular sieves synthesized using an ionothermal method. RSC Advances, 2019, 9, 32848-32853.	3.6	3
1988	Modification of Poly(Ethylene 2,5-Furandicarboxylate) with Poly(Ethylene glycol) for Biodegradable Copolyesters with Good Mechanical Properties and Spinnability. Polymers, 2019, 11, 2105.	4.5	18
1989	Dehydration of sorbitol to isosorbide over hydrophobic polymer-based solid acid. Applied Catalysis B: Environmental, 2019, 240, 182-192.	20.2	36
1990	Bio-compounds Production from Agri-food Wastes Under a Biorefinery Approach: Exploring Environmental and Social Sustainability. Environmental Footprints and Eco-design of Products and Processes, 2019, , 25-53.	1.1	5
1991	Furfural production from microwave catalytic torrefaction of Douglas fir sawdust. Journal of Analytical and Applied Pyrolysis, 2019, 138, 188-195.	5.5	21
1992	Supercritical Carbon Dioxide Extraction of Value-Added Products and Thermochemical Synthesis of Platform Chemicals from Food Waste. ACS Sustainable Chemistry and Engineering, 2019, 7, 2821-2829.	6.7	23
1993	Aerobic oxidation of 5â€‘hydroxymethylfurfural to 2,5-furandicarboxylic acid over Co/Mn-lignin coordination complexes-derived catalysts. Applied Catalysis B: Environmental, 2019, 244, 965-973.	20.2	110
1994	Direct synthesis of metal-organic frameworks catalysts with tunable acidâ€“base strength for glucose dehydration to 5-hydroxymethylfurfural. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 93-103.	5.3	34
1995	An investigation of the thermal and (bio)degradability of PBS copolyesters based on isosorbide. Polymer Degradation and Stability, 2019, 160, 229-241.	5.8	41
1996	Computational Framework for the Identification of Bioprivileged Molecules. ACS Sustainable Chemistry and Engineering, 2019, 7, 2414-2428.	6.7	20
1997	Recent advances in catalytic conversion of biomass to 5-hydroxymethylfurfural and 2, 5-dimethylfuran. Renewable and Sustainable Energy Reviews, 2019, 103, 227-247.	16.4	183

#	Article	IF	Citations
1998	Mechanistic insights on catalytic conversion fructose to furfural on beta zeolite via selective carbon-carbon bond cleavage. Molecular Catalysis, 2019, 463, 130-139.	2.0	38
1999	Niobium-doped TiO2 solid acid catalysts: Strengthened interfacial polarization, amplified microwave heating and enhanced energy efficiency of hydroxymethylfurfural production. Applied Catalysis B: Environmental, 2019, 243, 741-749.	20.2	34
2000	Magnetic cross-linked enzyme aggregates (MCLEAs) applied to biomass conversion. Journal of Solid State Chemistry, 2019, 270, 58-70.	2.9	16
2001	Preparation of Amphiphilic Poly(ethylene glycol)-<i>b</i>-poly(Î³-butyrolactone) Diblock Copolymer via Ring Opening Polymerization Catalyzed by a Cyclic Trimeric Phosphazene Base or Alkali Alkoxide. Biomacromolecules, 2019, 20, 141-148.	5.4	40
2002	Catalytic in-situ hydrogenation of 5-hydroxymethylfurfural to 2,5-dimethylfuran over Cu-based catalysts with methanol as a hydrogen donor. Applied Catalysis A: General, 2019, 570, 245-250.	4.3	50
2003	Ruthenium Catalyzed Reductive Transformation of Itaconic Acid and Ammonia Into 3â€•and 4â€Methylâ€pyrrolidone. ChemCatChem, 2019, 11, 439-442.	3.7	16
2004	Efficient preparation of 5-hydroxymethylfurfural from cellulose in a biphasic system over hafnyl phosphates. Applied Catalysis B: Environmental, 2019, 244, 170-177.	20.2	77
2005	Toward Infinitely Recyclable Plastics Derived from Renewable Cyclic Esters. CheM, 2019, 5, 284-312.	11.7	239
2006	Solubility behavior of Î³-valerolactoneÂ+ n-tetradecane or diesel mixtures at different temperatures. Fluid Phase Equilibria, 2019, 484, 239-244.	2.5	9
2007	Modification of Poly(ethylene 2,5-furandicarboxylate) with Biobased 1,5-Pentanediol: Significantly Toughened Copolyesters Retaining High Tensile Strength and O₂ Barrier Property. Biomacromolecules, 2019, 20, 353-364.	5.4	92
2008	Sustaining the Transition from a Petrobased to a Biobased Chemical Industry with Flow Chemistry. Topics in Current Chemistry, 2019, 377, 1.	5.8	104
2009	Selective Synthesis of Furfuryl Alcohol from Biomass-Derived Furfural Using Immobilized Yeast Cells. Catalysts, 2019, 9, 70.	3.5	24
2010	Selective conversion of biomass-derived levulinic acid to ethyl levulinate catalyzed by metal organic framework (MOF)-supported polyoxometalates. Applied Catalysis A: General, 2019, 572, 168-175.	4.3	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. Separation and Purification Technology, 2019, 215, 463-472.	7.9	30
2012	Effect of MnO₂ Crystal Structure on Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. Journal of the American Chemical Society, 2019, 141, 890-900.	13.7	299
2013	Two-stage autohydrolysis and mechanical treatment to maximize sugar recovery from sweet sorghum bagasse. Bioresource Technology, 2019, 276, 140-145.	9.6	10
2014	Thermally Regulated Recyclable Carbene Catalysts for Upgrading of Biomass Furaldehydes. ACS Sustainable Chemistry and Engineering, 2019, 7, 1980-1988.	6.7	15
2015	Transesterification of Isosorbide with Dimethyl Carbonate Catalyzed by Taskâ€Specific Ionic Liquids. ChemSusChem, 2019, 12, 1169-1178.	6.8	41

#	Article	IF	Citations
2016	Bio-Based Chemicals from Renewable Biomass for Integrated Biorefineries. Energies, 2019, 12, 233.	3.1	236
2017	Synergistic Catalysis of BrÃ,nsted Acid and Lewis Acid Coexisted on Ordered Mesoporous Resin for One-Pot Conversion of Glucose to 5-Hydroxymethylfurfural. ACS Omega, 2019, 4, 1053-1059.	3.5	10
2018	Valorization of egg shell as a detoxifying and buffering agent for efficient polymalic acid production by Aureobasidium pullulans NRRL Y-2311-1 from barley straw hydrolysate. Bioresource Technology, 2019, 278, 130-137.	9.6	19
2019	Functionalized Periodic Mesoporous Organosilicas: Tunable Hydrophobic Solid Acids for Biomass Conversion. Molecules, 2019, 24, 239.	3.8	24
2020	Recent Advances in the Development of 5â€Hydroxymethylfurfural Oxidation with Base (Nonprecious)â€Metalâ€Containing Catalysts. ChemSusChem, 2019, 12, 145-163.	6.8	141
2021	Bio-based polyester itaconates as binder resins for UV-curing offset printing inks. Journal of Coatings Technology Research, 2019, 16, 689-697.	2.5	16
2022	Glycerol Partial Oxidation over Pt/Al₂O₃ Catalysts under Basic and Baseâ€Free Conditionsâ€"Effect of the Particle Size. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 63-74.	1.9	7
2023	Dehydration of fructose into 5-hydroxymethylfurfural in a biphasic system using EDTA as a temperature-responsive catalyst. Applied Catalysis A: General, 2019, 569, 93-100.	4.3	23
2024	Thermoelectrics: From history, a window to the future. Materials Science and Engineering Reports, 2019, 138, 100501.	31.8	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. Journal of Industrial and Engineering Chemistry, 2019, 70, 338-345.	5.8	24
2026	Bio-Electro-Refinery. , 2019, , 1059-1085.		1
2027	Towards Improved Biorefinery Technologies: 5â€Methylfurfural as a Versatile C₆ Platform for Biofuels Development. ChemSusChem, 2019, 12, 185-189.	6.8	42
2028	Insights into HMF catalysis. Journal of Industrial and Engineering Chemistry, 2019, 70, 1-34.	5.8	90
2029	Solvent-free organocatalytic preparation of cyclic organic carbonates under scalable continuous flow conditions. Reaction Chemistry and Engineering, 2019, 4, 17-26.	3.7	26
2030	Simultaneously high-rate furfural hydrogenation and oxidation upgrading on nanostructured transition metal phosphides through electrocatalytic conversion at ambient conditions. Applied Catalysis B: Environmental, 2019, 244, 899-908.	20.2	115
2031	Reasons for processing of rice coproducts: Reality and expectations. Biomass and Bioenergy, 2019, 120, 240-256.	5.7	56
2032	Valorization of Ligninâ€"Carbohydrate Complexes from Hydrolysates of Norway Spruce: Efficient Separation, Structural Characterization, and Antioxidant Activity. ACS Sustainable Chemistry and Engineering, 2019, 7, 1447-1456.	6.7	25
2033	Challenges in lipid production from lignocellulosic biomass using <i>Rhodosporidium</i> sp.; A look at the role of lignocellulosic inhibitors. Biofuels, Bioproducts and Biorefining, 2019, 13, 740-759.	3.7	32

#	Article	IF	Citations
2034	Synergistic Contribution of the Acidic Metal Oxideâ€“Metal Couple and Solvent Environment in the Selective Hydrogenolysis of Glycerol: A Combined Experimental and Computational Study Using ReO_{<i>x</i>}â€“Ir as the Catalyst. ACS Catalysis, 2019, 9, 485-503.	11.2	40
2035	A Comparative Study of Nickel, Cobalt, and Iron Oxyhydroxide Anodes for the Electrochemical Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. ACS Catalysis, 2019, 9, 660-670.	11.2	254
2036	Electrochemical Membrane Reactor Modeling for Lignin Depolymerization. ACS Sustainable Chemistry and Engineering, 2019, 7, 2091-2099.	6.7	9
2037	Nanophase separation in aqueous dilutions of a ternary DES as revealed by Brillouin and NMR spectroscopy. Journal of Molecular Liquids, 2019, 276, 196-203.	4.9	33
2038	Screening of Solvents, Hydrogen Source, and Investigation of Reaction Mechanism for the Hydrocyclisation of Levulinic Acid to Î³-Valerolactone Using Ni/SiO2â€“Al2O3 Catalyst. Catalysis Letters, 2019, 149, 215-227.	2.6	25
2039	Heterogeneous hydroconversion of levulinic acid over silica-supported Ni catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 795-810.	1.7	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. Metabolic Engineering, 2019, 52, 190-214.	7.0	53
2042	Life cycle assessment of poplar production: Environmental impact of different soil enrichment methods. Journal of Cleaner Production, 2019, 206, 785-796.	9.3	29
2043	Development of High Performance Heterogeneous Catalysts for Selective Cleavage of Câˆ'O and Câˆ'C Bonds of Biomassâ€Derived Oxygenates. Chemical Record, 2019, 19, 1179-1198.	5.8	22
2044	Ketonization kinetics of stearic acid. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 601-610.	1.7	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. Journal of Dispersion Science and Technology, 2019, 40, 756-765.	2.4	22
2046	Furfural production from lignocellulosic biomass by ultrasound-assisted acid hydrolysis. Ultrasonics Sonochemistry, 2019, 51, 332-339.	8.2	41
2047	Developments in the Atomistic Modelling of Catalytic Processes for the Production of Platform Chemicals from Biomass. ChemCatChem, 2019, 11, 357-367.	3.7	3
2049	C6 Diacids from homocitric acid lactone using relay heterogeneous catalysis in water. Catalysis Today, 2019, 319, 191-196.	4.4	1
2050	Catalytic dehydration of sorbitol and fructose by acid-modified zirconium phosphate. Catalysis Today, 2019, 319, 66-75.	4.4	32
2051	Optimization of Furfural Synthesis from Xylose Using Niobic Acid and Niobium Phosphate as Catalysts. Waste and Biomass Valorization, 2019, 10, 2673-2680.	3.4	10
2052	Au/Al2O3 â€“ Efficient catalyst for 5-hydroxymethylfurfural oxidation to 2,5-furandicarboxylic acid. Catalysis Today, 2019, 333, 169-175.	4.4	41

#	Article	IF	Citations
2053	Rationalizing the conversion of glucose and xylose catalyzed by a combination of Lewis and BrÃ¸nsted acids. Catalysis Today, 2020, 344, 92-101.	4.4	35
2054	Application of NMR Spectroscopy and Conventional Analytical Methods for the Assessment of Wastewater from Food Industry. Waste and Biomass Valorization, 2020, 11, 1349-1357.	3.4	11
2055	A selective oxidative valorization of biomass-derived furfural and ethanol with the supported gold catalysts. Catalysis Today, 2020, 355, 238-245.	4.4	12
2056	Zirconium-Containing Organicâ€“Inorganic Nanohybrid as a Highly Efficient Catalyst for the Selective Synthesis of Biomass-Derived 2,5-Dihydroxymethylfuran in Isopropanol. Waste and Biomass Valorization, 2020, 11, 3485-3499.	3.4	15
2057	Engineering the future: Perspectives in the 2,5-furandicarboxylic acid synthesis. Catalysis Today, 2020, 354, 211-217.	4.4	27
2058	Hydrogenolysis of glycerol to 1,2-propanediol over Cu-based catalysts: A short review. Catalysis Today, 2020, 355, 84-95.	4.4	78
2059	In situ preparation of bimetallic ReOx-Pd/TiO2 catalysts for selective aqueous-phase hydrogenation of succinic acid to 1,4-butanediol. Catalysis Today, 2020, 355, 75-83.	4.4	15
2060	Recent progress in homogeneous Lewis acid catalysts for the transformation of hemicellulose and cellulose into valuable chemicals, fuels, and nanocellulose. Reviews in Chemical Engineering, 2020, 36, 215-235.	4.4	24
2061	Xylitol: A review on the progress and challenges of its production by chemical route. Catalysis Today, 2020, 344, 2-14.	4.4	156
2062	Production of HMF in high yield using a low cost and recyclable carbonaceous catalyst. Chemical Engineering Journal, 2020, 382, 122766.	12.7	40
2063	Towards improving the sustainability of bioplastics: Process modelling and life cycle assessment of two separation routes for 2,5-furandicarboxylic acid. Separation and Purification Technology, 2020, 233, 116056.	7.9	32
2064	Thermodynamic analysis, experimental and kinetic modeling of levulinic acid esterification with ethanol at supercritical conditions. Fuel, 2020, 260, 116376.	6.4	11
2065	Status of filamentous fungi in integrated biorefineries. Renewable and Sustainable Energy Reviews, 2020, 117, 109472.	16.4	65
2066	Carboxylic acid reductases in metabolic engineering. Journal of Biotechnology, 2020, 307, 1-14.	3.8	32
2067	NiSe@NiOx core-shell nanowires as a non-precious electrocatalyst for upgrading 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid. Applied Catalysis B: Environmental, 2020, 261, 118235.	20.2	130
2068	Towards Controlling the Reactivity of Enzymes in Mechanochemistry: Inert Surfaces Protect Î²â€Glucosidase Activity During Ball Milling. ChemSusChem, 2020, 13, 106-110.	6.8	29
2069	Reduction of Propanoic Acid over Pdâ€Promoted Supported WO x Catalysts. ChemCatChem, 2020, 12, 314-325.	3.7	3
2070	Process design and techno-economic analysis of gas and aqueous phase maleic anhydride production from biomass-derived furfural. Biomass Conversion and Biorefinery, 2020, 10, 1021-1033.	4.6	23

#	Article	IF	Citations
2071	Taming heterogeneous rhenium catalysis for the production of biomass-derived chemicals. Chinese Chemical Letters, 2020, 31, 1071-1077.	9.0	27
2072	Partially biobased polymers: The synthesis of polysilylethers via dehydrocoupling catalyzed by an anionic iridium complex. Chinese Chemical Letters, 2020, 31, 1197-1200.	9.0	13
2073	Pyrolysis and combustion characteristics and kinetics of wood sawdust and wood sawdust hydrochar. Environmental Progress and Sustainable Energy, 2020, 39, e13315.	2.3	7
2074	Efficient synthesis of 5-hydroxymethyl-2-furancarboxylic acid by Escherichia coli overexpressing aldehyde dehydrogenases. Journal of Biotechnology, 2020, 307, 125-130.	3.8	38
2075	Synthesis of n-Butyl Levulinate Using Mesoporous Zeolite H-BEA Catalysts with Different Catalytic Characteristics. Catalysis Letters, 2020, 150, 1049-1060.	2.6	30
2076	Biotechnological production of sweeteners. , 2020, , 261-292.		14
2077	Isosorbide: Recent advances in catalytic production. Molecular Catalysis, 2020, 482, 110648.	2.0	21
2078	Conversion of levulinic acid to ethyl levulinate using tin modified silicotungstic acid supported on Ta2O5. Catalysis Communications, 2020, 134, 105864.	3.3	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.	5.6	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.	7.9	15
2081	Tracing the production area of citrus fruits using aromaâ€active compounds and their quality evaluation models. Journal of the Science of Food and Agriculture, 2020, 100, 517-526.	3.5	10
2082	Microstructure and high-temperature properties of Fe-Ti-Cr-Mo-B-C-Y2O3 laser cladding coating. Journal of Rare Earths, 2020, 38, 683-688.	4.8	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.	6.7	23
2084	Addressing environmental sustainability of biochemicals. Nature Sustainability, 2020, 3, 167-174.	23.7	112
2085	Pentanoic acid from Î³-valerolactone and formic acid using bifunctional catalysis. Green Chemistry, 2020, 22, 1171-1181.	9.0	33
2086	Solvent-free hydrogenation of levulinic acid to Î³-valerolactone using a Shvo catalyst precursor: optimization, thermodynamic insights, and life cycle assessment. Green Chemistry, 2020, 22, 2443-2458.	9.0	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.	7.1	19
2088	Self-tuned properties of CuZnO catalysts for hydroxymethylfurfural hydrodeoxygenation towards dimethylfuran production. Catalysis Science and Technology, 2020, 10, 658-670.	4.1	25

#	Article	IF	Citations
2089	Structure-performance correlations of cross-linked boronic acid polymers as adsorbents for recovery of fructose from glucoseâ€“fructose mixtures. Green Chemistry, 2020, 22, 550-562.	9.0	16
2090	Selective production of 5-hydroxymethylfurfural from fructose in the presence of an acid-functionalized SBA-15 catalyst modified with a sulfoxide polymer. Molecular Systems Design and Engineering, 2020, 5, 257-268.	3.4	20
2091	Unraveling the effect of ZrO₂ modifiers on the nature of active sites on AuRu/ZrO₂ catalysts for furfural hydrogenation. Sustainable Energy and Fuels, 2020, 4, 1469-1480.	4.9	10
2092	Ru supported on N-doped reduced graphene oxide aerogels with different N-type for alcohol selective oxidation. Molecular Catalysis, 2020, 484, 110737.	2.0	8
2093	Recovery of succinic acid by integrated multi-phase electrochemical pH-shift extraction and crystallization. Separation and Purification Technology, 2020, 240, 116489.	7.9	40
2094	Magneli-Phase Titanium Suboxide Nanocrystals as Highly Active Catalysts for Selective Acetalization of Furfural. ACS Applied Materials & Interfaces, 2020, 12, 2539-2547.	8.0	23
2095	Improved succinate production from galactoseâ€rich feedstocks by engineered <i>Escherichia coli</i> under anaerobic conditions. Biotechnology and Bioengineering, 2020, 117, 1082-1091.	3.3	7
2096	Towards Preparative Chemoenzymatic Oxidative Decarboxylation of Glutamic Acid. ChemCatChem, 2020, 12, 2180-2183.	3.7	11
2097	Photoinduced Upgrading of Lactic Acid-Based Solvents to Block Copolymer Surfactants. ACS Sustainable Chemistry and Engineering, 2020, 8, 1276-1284.	6.7	22
2099	Fuels and fuel additives from furfural derivatives via etherification and formation of methylfurans. Fuel Processing Technology, 2020, 200, 106308.	7.2	50
2100	Metal-Free Alternating Copolymerization of Nonstrained Î³-Selenobutyrolactone with Epoxides for Selenium-Rich Polyesters. Macromolecules, 2020, 53, 203-211.	4.8	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 CO2: Experiments and simulation of external extract reflux. Journal of Supercritical Fluids, 2020, 157, 104680.	3.2	3
2104	Biotechnological approach to generate green biohydrogen through the utilization of succinate-rich fermentation wastewater. International Journal of Hydrogen Energy, 2020, 45, 22246-22259.	7.1	14
2105	Interfacial Structure-Determined Reaction Pathway and Selectivity for 5-(Hydroxymethyl)furfural Hydrogenation over Cu-Based Catalysts. ACS Catalysis, 2020, 10, 1353-1365.	11.2	118
2106	Flame Retardancy and Mechanical Properties of Bioâ€Based Furan Epoxy Resins with High Crosslink Density. Macromolecular Materials and Engineering, 2020, 305, 1900587.	3.6	23
2107	Porous cobalt@N-doped carbon derived from chitosan for oxidative esterification of 5-Hydroxymethylfurfural: The roles of zinc in the synthetic and catalytic process. Molecular Catalysis, 2020, 482, 110695.	2.0	21

#	Article	IF	Citations
2108	Beyond Artificial Photosynthesis: Prospects on Photobiorefinery. ChemCatChem, 2020, 12, 1873-1890.	3.7	42
2109	Radiation-thermal approaches to the processing of complex polymer waste. Radiation Physics and Chemistry, 2020, 170, 108664.	2.8	4
2110	Influence of asymmetric substituent group 2-methyl-1,3-propanediol on bio-based poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.7	18
2111	Efficient Synthesis of Biobased Glycerol Levulinate Ketal and Its Application for Rigid Polyurethane Foam Production. Industrial & Engineering Chemistry Research, 2020, 59, 17520-17528.	3.7	17
2112	Synthesis, thermal and mechanical properties of fully biobased poly(butylene-co-propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 587 Tc Polymer, 2020, 186, 122053.	3.8	20
2113	Dimethyl Isosorbide As a Green Solvent for Sustainable Ultrafiltration and Microfiltration Membrane Preparation. ACS Sustainable Chemistry and Engineering, 2020, 8, 659-668.	6.7	90
2114	Utilizing Furfural-Based Bifuran Diester as Monomer and Comonomer for High-Performance Bioplastics: Properties of Poly(butylene furanoate), Poly(butylene bifuranoate), and Their Copolyesters. Biomacromolecules, 2020, 21, 743-752.	5.4	52
2115	Biocatalytic Oxidation of Biobased Furan Aldehydes: Comparison of Toxicity and Inhibition of Furans toward a Whole-Cell Biocatalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 1437-1444.	6.7	25
2117	Decarboxylative Borylation of <i>m</i>CPBA-Activated Aliphatic Acids. Organic Letters, 2020, 22, 234-238.	4.6	29
2118	Recent advances in selective oxidation of biomass-derived platform chemicals over gold catalysts. Current Opinion in Green and Sustainable Chemistry, 2020, 21, 50-55.	5.9	14
2119	Effects of the mobile phase on the chromatographic separation of l-lysine and 5-aminovaleric acid. Microchemical Journal, 2020, 152, 104369.	4.5	6
2120	Catalytic Transfer Hydrogenation of Furfural over Co₃O₄â^ˆ'Al₂O₃ Hydrotalciteâ€derived Catalyst. ChemCatChem, 2020, 12, 1467-1475.	3.7	31
2121	Catalytic synthesis of 2,5-bis(hydroxymethyl)furan from 5-hydroxymethylfurfual by recombinant Saccharomyces cerevisiae. Enzyme and Microbial Technology, 2020, 134, 109491.	3.2	33
2122	Aqueous-Phase Hydrogenation of Levulinic Acid Using Formic Acid as a Sustainable Reducing Agent Over Pt Catalysts Supported on Mesoporous Zirconia. ACS Sustainable Chemistry and Engineering, 2020, 8, 393-402.	6.7	47
2123	Improved production of 3-hydroxypropionic acid in engineered Escherichia coli by rebalancing heterologous and endogenous synthetic pathways. Bioresource Technology, 2020, 299, 122600.	9.6	15
2124	Reductive conversion of 5-hydroxymethylfurfural to 1,2,6-hexanetriol in water solvent using supported Pt catalysts. Catalysis Today, 2020, 352, 60-65.	4.4	14
2125	Life-cycle sustainability of biomass-derived sorbitol: Proposing technological alternatives for improving the environmental profile of a bio-refinery platform molecule. Journal of Cleaner Production, 2020, 250, 119568.	9.3	24
2126	Lewisâ€Pairâ€Mediated Selective Dimerization and Polymerization of Lignocelluloseâ€Based Î²â€Angelica Lactone into Biofuel and Acrylic Bioplastic. Angewandte Chemie, 2020, 132, 2686-2690.	2.0	12

#	Article	IF	Citations
2127	Lewisâ€Pairâ€Mediated Selective Dimerization and Polymerization of Lignocelluloseâ€Based Î²â€Angelica Lactone into Biofuel and Acrylic Bioplastic. Angewandte Chemie - International Edition, 2020, 59, 2664-2668.	13.8	49
2128	Kinetic analyses of intramolecular dehydration of hexitols in high-temperature water. Carbohydrate Research, 2020, 487, 107880.	2.3	3
2129	Sugarcane for renewable chemistry. , 2020, , 165-178.		1
2130	Ru/MnCo2O4 as a catalyst for tunable synthesis of 2,5-bis(hydroxymethyl)furan or 2,5-bis(hydroxymethyl)tetrahydrofuran from hydrogenation of 5-hydroxymethylfurfural. Molecular Catalysis, 2020, 484, 110722.	2.0	33
2131	Cellulose fast pyrolysis for platform chemicals: assessment of potential targets and suitable reactor technology. Biofuels, Bioproducts and Biorefining, 2020, 14, 446-468.	3.7	17
2132	Pyrone Synthesis from Renewable Sources: Easy Preparation of 3â€Acetoxyâ€2â€oxoâ€2<i>H</i>â€pyranâ€6â€carboxylic Salts and their Derivatives as 3â€Hydroxyâ€2<i>H</i>â€pyranâ€2â€one from C6 Aldaric Acids. European Journal of Organic Chemistry, 2020, 2020, 241-251.	2.4	15
2133	The challenge of converting biomass polysaccharides into levulinic acid through heterogeneous catalytic processes. Biofuels, Bioproducts and Biorefining, 2020, 14, 417-445.	3.7	19
2134	Integrated wood biorefinery: Improvements and tailor-made two-step strategies on hydrolysis techniques. Bioresource Technology, 2020, 299, 122632.	9.6	12
2135	Advancements and Complexities in the Conversion of Lignocellulose Into Chemicals and Materials. Frontiers in Chemistry, 2020, 8, 797.	3.6	14
2136	Towards the Green Synthesis of Furfuryl Alcohol in A One-Pot System from Xylose: A Review. Catalysts, 2020, 10, 1101.	3.5	27
2137	Dipolar cycloadditions of HMF-based nitrones: stepwise and multicomponent reactions, stereochemical outcome and structural scope. Green Chemistry, 2020, 22, 7907-7912.	9.0	3
2138	Production of levulinic acid from wet microalgae in a biphasic one-pot reaction process. Korean Journal of Chemical Engineering, 2020, 37, 1933-1941.	2.7	5
2140	Furfuryl Alcohol Production with High Selectivity by a Novel Visible-Light Driven Biocatalysis Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 15980-15988.	6.7	24
2141	Role of defects in carbon materials during metal-free formic acid dehydrogenation. Nanoscale, 2020, 12, 22768-22777.	5.6	19
2142	Enzymatic hydrolysis of several pretreated lignocellulosic biomasses: Fractal kinetic modelling. Bioresource Technology, 2020, 318, 124050.	9.6	16
2143	Ring-opening polymerization of Î³-lactones and copolymerization with other cyclic monomers. Progress in Polymer Science, 2020, 110, 101309.	24.7	45
2144	Developing a Continuous Process for Isosorbide Production from Renewable Sources. ChemCatChem, 2020, 12, 6393-6400.	3.7	7
2145	Production of Levulinic Acid from Cellulose and Cellulosic Biomass in Different Catalytic Systems. Catalysts, 2020, 10, 1006.	3.5	33

#	Article	IF	Citations
2146	Electrochemical Conversion of Biomass Derived Products into High-Value Chemicals. Matter, 2020, 3, 1162-1177.	10.0	63
2147	Catalytic Conversion of Ethanol Into 1,3-Butadiene: Achievements and Prospects: A Review. Theoretical and Experimental Chemistry, 2020, 56, 213-242.	0.8	29
2148	Efficient conversion of glucosamine to ethyl levulinate catalyzed by methanesulfonic acid. Korean Journal of Chemical Engineering, 2020, 37, 1743-1750.	2.7	7
2150	Improving thermal and mechanical properties of biomass-based polymers using structurally ordered polyesters from ricinoleic acid and 4-hydroxycinnamic acids. RSC Advances, 2020, 10, 36562-36570.	3.6	12
2151	Algae-based electrochemical energy storage devices. Green Chemistry, 2020, 22, 8062-8096.	9.0	33
2152	Falling Leaves Return to Their Roots: A Review on the Preparation of Î³â€Valerolactone from Lignocellulose and Its Application in the Conversion of Lignocellulose. ChemSusChem, 2020, 13, 6461-6476.	6.8	52
2153	Hydrophobic functional liquids based on trioctylphosphine oxide (TOPO) and carboxylic acids. Physical Chemistry Chemical Physics, 2020, 22, 24744-24763.	2.8	19
2154	Carbon based catalysts for the hydrodeoxygenation of lignin and related molecules: A powerful tool for the generation of non-petroleum chemical products including hydrocarbons. Renewable and Sustainable Energy Reviews, 2020, 133, 110280.	16.4	36
2155	Oxygen assisted butanol conversion on bifunctional carbon nanotube catalysts: Activity of oxygen functionalities. Carbon, 2020, 170, 580-588.	10.3	20
2156	Development of a sustainable bioprocess based on green technologies for xylitol production from corn cob. Industrial Crops and Products, 2020, 156, 112867.	5.2	38
2157	Selective Aerobic Oxidation of 5â€(Hydroxymethyl)furfural over Heterogeneous Silverâ€Gold Nanoparticle Catalysts. Advanced Synthesis and Catalysis, 2020, 362, 5681-5696.	4.3	27
2158	Investigation of Silphium perfoliatum as Feedstock for a Liquid Hot Waterâ€“Based Biorefinery Process Towards 2,3-Butanediol. Bioenergy Research, 2021, 14, 799-814.	3.9	3
2159	Light-Driven Metal-Free Direct Deoxygenation of Alcohols under Mild Conditions. IScience, 2020, 23, 101419.	4.1	20
2160	5-Hydroxymethylfurfural from fructose: an efficient continuous process in a water-dimethyl carbonate biphasic system with high yield product recovery. Green Chemistry, 2020, 22, 5402-5413.	9.0	52
2161	Status of Biocatalysis in the Production of 2,5-Furandicarboxylic Acid. ACS Catalysis, 2020, 10, 9145-9169.	11.2	42
2162	Niâ€“Cu Bimetallic Catalytic System for Producing 5-Hydroxymethylfurfural-Derived Value-Added Biofuels. ACS Sustainable Chemistry and Engineering, 2020, 8, 11183-11193.	6.7	22
2163	Advances in catalytic routes for the production of carboxylic acids from biomass: a step forward for sustainable polymers. Chemical Society Reviews, 2020, 49, 5704-5771.	38.1	134
2164	Continuous Flow Upgrading of Selected C₂â€“C₆Platform Chemicals Derived from Biomass. Chemical Reviews, 2020, 120, 7219-7347.	47.7	222

#	Article	IF	Citations
2165	Acrylic Acid Production by Gas-Phase Dehydration of Lactic Acid over K⁺-Exchanged ZSM-5: Reaction Variable Effects, Kinetics, and New Evidence for Cooperative Acidâ€“Base Bifunctional Catalysis. Industrial & Engineering Chemistry Research, 2020, 59, 17417-17428.	3.7	20
2166	Synthesis of 2,5-furandicarboxylic acid by a TEMPO/laccase system coupled with <i>Pseudomonas putida</i> KT2440. RSC Advances, 2020, 10, 21781-21788.	3.6	18
2167	Fabrication of highly selective amine-cross-linked membrane for concentrated bio-succinate recovery from both synthetic model solutions and fermentation broth. Journal of Water Process Engineering, 2020, 37, 101420.	5.6	3
2168	A Robust and Highly Selective Catalytic System of Copperâ€“Silica Nanocomposite and 1â€Butanol in Fructose Hydrogenation to Mannitol. ChemSusChem, 2020, 13, 5050-5057.	6.8	5
2169	Controlling the Reaction Networks for Efficient Conversion of Glucose into 5â€Hydroxymethylfurfural. ChemSusChem, 2020, 13, 4812-4832.	6.8	73
2170	Engineering Catalysts for Selective Ester Hydrogenation. Organic Process Research and Development, 2020, 24, 415-442.	2.7	30
2171	Challenges and future prospects in heterogeneous catalysis for biorefinery technologies. , 2020, , 225-250.		3
2172	Preparation and Characterization of Furanâ€“Matrix Composites Blended with Modified Hollow Glass Microsphere. Polymers, 2020, 12, 1480.	4.5	9
2173	Graphitic Carbon Nitrideâ€Based Materials as Catalysts for the Upgrading of Lignocellulosic Biomassâ€Derived Molecules. ChemSusChem, 2020, 13, 3992-4004.	6.8	22
2174	Fermentation of cellulose pyrolysis oil by a Clostridial bacterium. Biomass and Bioenergy, 2020, 143, 105884.	5.7	9
2175	Aldol Reactions of Biorenewable Triacetic Acid Lactone Precursor Evaluated Using Desorption Electrospray Ionization Mass Spectrometry High-Throughput Experimentation and Validated by Continuous Flow Synthesis. ACS Combinatorial Science, 2020, 22, 796-803.	3.8	8
2176	Lanthanum phosphate: an efficient catalyst for acrylic acid production through lactic acid dehydration. Biomass Conversion and Biorefinery, 2022, 12, 3535-3546.	4.6	4
2177	Solvent selection for biphasic extraction of 5-hydroxymethylfurfural <i>via</i> multiscale modeling and experiments. Green Chemistry, 2020, 22, 8699-8712.	9.0	28
2178	Synergistic Dual Transition Metal Catalysis. Chemical Reviews, 2020, 120, 13382-13433.	47.7	212
2179	Prediction of Hydroxymethylfurfural Yield in Glucose Conversion through Investigation of Lewis Acid and Organic Solvent Effects. ACS Catalysis, 2020, 10, 14707-14721.	11.2	41
2180	Improved conversion of bamboo shoot shells to furfuryl alcohol and furfurylamine by a sequential catalysis with sulfonated graphite and biocatalysts. RSC Advances, 2020, 10, 40365-40372.	3.6	16
2181	Supported Bimetallic Catalysts for the Solvent-Free Hydrogenation of Levulinic Acid to Î³-Valerolactone: Effect of Metal Combination (Ni-Cu, Ni-Co, Cu-Co). Catalysts, 2020, 10, 1354.	3.5	15
2182	Avocado-Derived Biomass as a Source of Bioenergy and Bioproducts. Applied Sciences (Switzerland), 2020, 10, 8195.	2.5	38

#	Article	IF	Citations
2183	The Influence of Carbon Nature on the Catalytic Performance of Ru/C in Levulinic Acid Hydrogenation with Internal Hydrogen Source. Molecules, 2020, 25, 5362.	3.8	6
2184	Application of New Efficient Hoveydaâ€“Grubbs Catalysts Comprising an Nâ†’Ru Coordinate Bond in a Six-Membered Ring for the Synthesis of Natural Product-Like Cyclopenta[b]furo[2,3-c]pyrroles. Molecules, 2020, 25, 5379.	3.8	7
2185	Synthesis and polymerization of bio-based acrylates: a review. Polymer Chemistry, 2020, 11, 7452-7470.	3.9	52
2186	An efficient method to produce 1,4-pentanediol from the biomass of the algae Chlorella ohadi with levulinic acid as intermediate. Bioresource Technology Reports, 2020, 11, 100514.	2.7	8
2187	Process design and techno-economic evaluation for the production of platform chemical for hydrocarbon fuels from lignocellulosic biomass using biomass-derived <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mi mathvariant="bold-italic">Î³</mml:mi></mml:math>-valerolactone. Renewable Energy, 2020, 161, 750-755.	8.9	15
2188	Value-Added Bio-Chemicals Commodities from Catalytic Conversion of Biomass Derived Furan-Compounds. Catalysts, 2020, 10, 895.	3.5	17
2189	Identifying the Geometric Site Dependence of Spinel Oxides for the Electrooxidation of 5â€Hydroxymethylfurfural. Angewandte Chemie - International Edition, 2020, 59, 19215-19221.	13.8	211
2190	CuCo 2 S 4 Deposited on TiO 2 : Controlling the pH Value Boosts Photocatalytic Hydrogen Evolution. European Journal of Inorganic Chemistry, 2020, 2020, 3692-3702.	2.0	1
2191	Ionic (Co)Organocatalyst with (Thio)Urea Anion and Tetraâ€‘<i>n</i>â€‘butyl Ammonium Cation for the Polymerization of Î³â€Butyrolactone. Macromolecular Chemistry and Physics, 2020, 221, 2000172.	2.2	9
2192	Synthesis and characterization of highly soluble wholly aromatic polyamides containing both furanyl and phenyl units. Journal of Polymer Science, 2020, 58, 2140-2150.	3.8	13
2193	A versatile route to the synthesis of pressure-sensitive adhesives and polyHIPE-like microparticles: an experimental study on glycerol valorization. Materials Today Communications, 2020, 25, 101407.	1.9	1
2194	A Genomic Perspective on the Potential of Wild-Type Rumen Bacterium Enterobacter sp. LU1 as an Industrial Platform for Bio-Based Succinate Production. International Journal of Molecular Sciences, 2020, 21, 4835.	4.1	3
2195	L-(+)-Lactic Acid from Reed: Comparing Various Resources for the Nutrient Provision of B. coagulans. Resources, 2020, 9, 89.	3.5	8
2196	Synthesis and Characterization of Novel Phyto-Mediated Catalyst, and Its Application for a Selective Oxidation of (VAL) into Vanillin under Visible Light. Catalysts, 2020, 10, 839.	3.5	8
2197	Classification of biomass reactions and predictions of reaction energies through machine learning. Journal of Chemical Physics, 2020, 153, 044126.	3.0	7
2198	A Perspective on PEF Synthesis, Properties, and End-Life. Frontiers in Chemistry, 2020, 8, 585.	3.6	110
2199	Heterogeneous Catalytic Conversion of Sugars Into 2,5-Furandicarboxylic Acid. Frontiers in Chemistry, 2020, 8, 659.	3.6	40
2200	Identifying the Geometric Site Dependence of Spinel Oxides for the Electrooxidation of 5â€Hydroxymethylfurfural. Angewandte Chemie, 2020, 132, 19377-19383.	2.0	41

#	Article	IF	Citations
2202	Efficient Route for the Production of Isoprene via Decarboxylation of Bioderived Mevalonolactone. ACS Catalysis, 2020, 10, 9649-9661.	11.2	14
2203	Biomass-derived chemical substitutes for bisphenol A: recent advancements in catalytic synthesis. Chemical Society Reviews, 2020, 49, 6329-6363.	38.1	87
2204	Hydrogenation of Furfural to Cyclopentanone under Mild Conditions by a Structureâ€Optimized Niâˆ'NiO/TiO₂ Heterojunction Catalyst. ChemSusChem, 2020, 13, 5507-5515.	6.8	31
2205	Improved Performance of Nickel Boride by Phosphorus Doping as an Efficient Electrocatalyst for the Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. Industrial & Engineering Chemistry Research, 2020, 59, 17348-17356.	3.7	42
2206	Sustainable energy and fuels from biomass: a review focusing on hydrothermal biomass processing. Sustainable Energy and Fuels, 2020, 4, 4390-4414.	4.9	140
2207	Effect of SWCNT Filler on Mechanical Properties and Electrical Conductivity of PVA/CS/GA/SWCNT Nanocomposite Thin Film. Key Engineering Materials, 0, 840, 441-447.	0.4	1
2208	Enhancement of glucaric acid production in Saccharomyces cerevisiae by expressing Vitreoscilla hemoglobin. Biotechnology Letters, 2020, 42, 2169-2178.	2.2	10
2209	Nickel-Catalysed Vapour-Phase Hydrogenation of Furfural, Insights into Reactivity and Deactivation. Topics in Catalysis, 2020, 63, 1446-1462.	2.8	18
2210	Tuning the product distribution during the catalytic pyrolysis of waste tires: The effect of the nature of metals and the reaction temperature. Catalysis Today, 2021, 372, 164-174.	4.4	24
2211	Reaction of H ₂ with mitochondria-relevant metabolites using a multifunctional molecular catalyst. Science Advances, 2020, 6, .	10.3	11
2212	Securing a furanâ€based biorefinery: disclosing the genetic basis of the degradation of hydroxymethylfurfural and its derivatives in the model fungus Aspergillus nidulans. Microbial Biotechnology, 2020, 13, 1983-1996.	4.2	8
2213	Biosynthesis of adipic acid in metabolically engineered Saccharomyces cerevisiae. Journal of Microbiology, 2020, 58, 1065-1075.	2.8	10
2214	Selective Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid over MnO_xâ€CeO₂ Supported Palladium Nanocatalyst under Aqueous Conditions. ChemistrySelect, 2020, 5, 10156-10162.	1.5	7
2215	Two-dimensional metalâ€"organic framework nanosheets for highly efficient electrocatalytic biomass 5-(hydroxymethyl)furfural (HMF) valorization. Journal of Materials Chemistry A, 2020, 8, 20386-20392.	10.3	88
2216	Directing-Group-Free, Carbonyl Group-Promoted Catalytic Câ€"H Arylation of Bio-Based Furans. ACS Catalysis, 2020, 10, 11466-11480.	11.2	17
2217	Controlled Natural Biomass Deoxygenation Allows the Design of Reusable Hot-Melt Adhesives Acting in a Multiple Oxygen Binding Mode. ACS Applied Materials & Interfaces, 2020, 12, 45394-45403.	8.0	19
2218	Synergistic Action of a Lytic Polysaccharide Monooxygenase and a Cellobiohydrolase from <i>Penicillium funiculosum</i> in Cellulose Saccharification under High-Level Substrate Loading. Applied and Environmental Microbiology, 2020, 86, .	3.1	23
2219	Electrocatalytic Valorization of Organosolv Lignin Utilizing a Nickel-Based Electrocatalyst. Energy & Fuels, 2020, 34, 12703-12709.	5.1	22

#	Article	IF	Citations
2220	Utilization of Agricultural and Livestock Waste in Anaerobic Digestion (A.D): Applying the Biorefinery Concept in a Circular Economy. Energies, 2020, 13, 4428.	3.1	39
2221	5-Hydroxymethylfurfural Hydrodeoxygenation to 2,5-Dimethylfuran in Continuous-Flow System over Ni on Nitrogen-Doped Carbon. Sustainable Chemistry, 2020, 1, 106-115.	4.7	16
2222	Dual-Functioning Antibacterial Eugenol-Derived Plasticizers for Polylactide. Biomolecules, 2020, 10, 1077.	4.0	12
2223	A unique pathway to platform chemicals: aldaric acids as stable intermediates for the synthesis of furandicarboxylic acid esters. Green Chemistry, 2020, 22, 8271-8277.	9.0	24
2224	A method for quick capital cost estimation of biorefineries beyond the state of the art. Biofuels, Bioproducts and Biorefining, 2020, 14, 1061-1088.	3.7	10
2225	Metal-Free Synthesis of HMF from Glucose Using the Supercritical CO₂â€"Subcritical H₂Oâ€"Isopropanol System. Industrial & Engineering Chemistry Research, 2020, 59, 16527-16538.	3.7	9
2226	Redox-Switchable Biocatalyst for Controllable Oxidation or Reduction of 5-Hydroxymethylfurfural into High-Value Derivatives. ACS Omega, 2020, 5, 19625-19632.	3.5	15
2227	Drying Effect on Enzymatic Hydrolysis of Cellulose Associated with Porosity and Crystallinity. Applied Sciences (Switzerland), 2020, 10, 5545.	2.5	11
2228	Insight into the Effect of Dual Active Cu⁰/Cu⁺ Sites in a Cu/ZnO-Al₂O₃ Catalyst on 5-Hydroxylmethylfurfural Hydrodeoxygenation. ACS Sustainable Chemistry and Engineering, 2020, 8, 15288-15298.	6.7	55
2230	NiCu Nanoparticles for Catalytic Hydrogenation of Biomass-Derived Carbonyl Compounds. ACS Applied Nano Materials, 2020, 3, 9226-9237.	5.0	25
2231	Hydrogenation of Furfural to Furfuryl Alcohol over Ru Particles Supported on Mildly Oxidized Biochar. Catalysts, 2020, 10, 934.	3.5	13
2232	A Agâ€"ZrO₂â€"graphene oxide nanocomposite as a metal-leaching-resistant catalyst for the aqueous-phase hydrogenation of levulinic acid into gamma-valerolactone. New Journal of Chemistry, 2020, 44, 16526-16536.	2.8	11
2233	Selective hydrogenation of furfural for high-value chemicals: effect of catalysts and temperature. Sustainable Energy and Fuels, 2020, 4, 5709-5720.	4.9	28
2234	Engineered <i>Saccharomyces cerevisiae</i> for lignocellulosic valorization: a review and perspectives on bioethanol production. Bioengineered, 2020, 11, 883-903.	3.2	57
2235	New Approach to Dehydration of Xylose to 2-Furfuraldehyde Using a Mesoporous Niobium-Based Catalyst. ACS Omega, 2020, 5, 21392-21400.	3.5	9
2236	Effect of substituents and promoters on the Dielsâ€"Alder cycloaddition reaction in the biorenewable synthesis of trimellitic acid. RSC Advances, 2020, 10, 30656-30670.	3.6	11
2237	Is Steam Explosion a Promising Pretreatment for Acid Hydrolysis of Lignocellulosic Biomass?. Processes, 2020, 8, 1626.	2.8	9
2238	Maize Silage Pretreatment via Steam Refining and Subsequent Enzymatic Hydrolysis for the Production of Fermentable Carbohydrates. Molecules, 2020, 25, 6022.	3.8	4

#	Article	IF	Citations
2239	Cascade conversion of furancarboxylic acid to butanediol diacetate over Pd/C and La(OTf)3 catalytic system. Applied Catalysis A: General, 2020, 608, 117888.	4.3	2
2240	Sulfonated Vermiculite-Mediated Catalysis of Reed (Phragmites communis) into Furfural for Enhancing the Biosynthesis of 2-Furoic Acid with a Dehydrogenase Biocatalyst in a One-Pot Manner. Energy & Fuels, 2020, 34, 14573-14580.	5.1	12
2241	Nanoparticle cages as microreactors for producing acrolein from glycerol in the liquid phase. New Journal of Chemistry, 2020, 44, 21332-21337.	2.8	3
2242	Recent progress in conversion of carbohydrate biomass and their derivatives to Î³-valerolactone. IOP Conference Series: Earth and Environmental Science, 2020, 446, 022035.	0.3	0
2243	Advance in constructing acid catalyst-solvent combinations for efficient transformation of glucose into 5-Hydroxymethylfurfural. Molecular Catalysis, 2020, 498, 111254.	2.0	15
2244	Unsaturated Polyester Resins and Fiber-Reinforced Polymer Composites from Plant Biomass. Key Engineering Materials, 2020, 869, 169-174.	0.4	2
2245	Catalytic Conversion of Lignocellulosic Biomass:Application of Heterogeneous and Homogeneous Catalysts to Process Biomass into Value-Added Compounds. ACS Symposium Series, 2020, , 151-182.	0.5	2
2246	The Increasing Value of Biomass: Moving From C6 Carbohydrates to Multifunctionalized Building Blocks via 5â€(hydroxymethyl)furfural. ChemistryOpen, 2020, 9, 1135-1148.	1.9	16
2247	Optimized Nb-Based Zeolites as Catalysts for the Synthesis of Succinic Acid and FDCA. Molecules, 2020, 25, 4885.	3.8	11
2248	Process Strategies for the Transition of 1G to Advanced Bioethanol Production. Processes, 2020, 8, 1310.	2.8	55
2249	A Family of Waterâ€Immiscible, Dipolar Aprotic, Diamide Solvents from Succinic Acid. ChemSusChem, 2020, 13, 3212-3221.	6.8	6
2250	Chemoselective and efficient catalytic hydrogenation of furfural by iridium and ruthenium half-sandwich complexes. New Journal of Chemistry, 2020, 44, 9382-9390.	2.8	14
2251	Reaction Kinetics Analysis of Ethanol Dehydrogenation Catalyzed by MgOâ€“SiO₂. ACS Catalysis, 2020, 10, 6318-6331.	11.2	32
2252	Strategic planning for chemicals and fuels bioconversion processes. Journal of Chemical Technology and Biotechnology, 2020, 95, 3079-3084.	3.2	2
2253	Hierarchically nanostructured NiO-Co3O4 with rich interface defects for the electro-oxidation of 5-hydroxymethylfurfural. Science China Chemistry, 2020, 63, 980-986.	8.2	85
2254	Photobiocatalytic synthesis of chiral secondary fatty alcohols from renewable unsaturated fatty acids. Nature Communications, 2020, 11, 2258.	12.8	58
2255	5-Hydroxymethylfurfural Synthesis in Nonaqueous Two-Phase Systems (NTPS)â€“PC-SAFT Predictions and Validation. Organic Process Research and Development, 2020, 24, 1052-1062.	2.7	8
2256	Metal organic frameworks for biomass conversion. Chemical Society Reviews, 2020, 49, 3638-3687.	38.1	176

#	ARTICLE	IF	CITATIONS
2257	Network Design to Control Polyimine Vitrimer Properties: Physical Versus Chemical Approach. Macromolecules, 2020, 53, 3796-3805.	4.8	111
2258	Production of 2,5-Furandicarboxylic Acid by Optimization of Oxidation of 5-Methyl Furfural over Homogeneous Co/Mn/Br Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 8011-8023.	6.7	14
2259	The deoxydehydration (DODH) reaction: a versatile technology for accessing olefins from bio-based polyols. Green Chemistry, 2020, 22, 4801-4848.	9.0	41
2260	Kinetic Studies on the Impact of Pd Addition to Ru/TiO₂ Catalyst: Levulinic Acid to Î³-Valerolactone under Ambient Hydrogen Pressure. Industrial & Engineering Chemistry Research, 2020, 59, 17279-17286.	3.7	6
2261	One-pot synthesis of Î²-O-4 lignin models via the insertion of stable 2-diazo-1,3-dicarbonyls into Oâ€“H bonds. Organic and Biomolecular Chemistry, 2020, 18, 4815-4823.	2.8	4
2262	Furfuryl alcoholâ€"a promising platform chemical. , 2020, , 323-353.		6
2263	Ethanol-to-butadiene: the reaction and its catalysts. Catalysis Science and Technology, 2020, 10, 4860-4911.	4.1	100
2264	One-step process to produce furfural from sugarcane bagasse over niobium-based solid acid catalysts in a water medium. Fuel Processing Technology, 2020, 207, 106482.	7.2	31
2265	Tailorable Electrocatalytic 5-Hydroxymethylfurfural Oxidation and H₂ Production: Architectureâ€“Performance Relationship in Bifunctional Multilayer Electrodes. ACS Nano, 2020, 14, 6812-6822.	14.6	81
2266	Recent Developments in Heterogeneous Catalytic Routes for the Sustainable Production of Succinic Acid from Biomass Resources. ChemSusChem, 2020, 13, 4026-4034.	6.8	34
2267	Chemoenzymatic conversion of Sorghum durra stalk into furoic acid by a sequential microwave-assisted solid acid conversion and immobilized whole-cells biocatalysis. Bioresource Technology, 2020, 311, 123474.	9.6	11
2268	Ultrafast Glycerol Conversion to Lactic Acid over Magnetically Recoverable Niâ€“NiO<i>_x</i>@C Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 9912-9925.	3.7	26
2269	Reductive catalytic routes towards sustainable production of hydrogen, fuels and chemicals from biomass derived polyols. Renewable and Sustainable Energy Reviews, 2020, 127, 109852.	16.4	58
2270	Facile Synthesis of Kilogram-Scale Co-Alloyed Pt Single-Atom Catalysts via Ball Milling for Hydrodeoxygenation of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 8692-8699.	6.7	89
2271	Tungstenâ€“zirconia-supported rhenium catalyst combined with a deoxydehydration catalyst for the one-pot synthesis of 1,4-butanediol from 1,4-anhydroerythritol. Reaction Chemistry and Engineering, 2020, 5, 1237-1250.	3.7	17
2272	Biocatalytic refining of polysaccharides from brown seaweeds. , 2020, , 447-504.		5
2273	One-pot synthesis of bio-fuel additives from glycerol and benzyl alcohol: Mesoporous MCM-41 supported iron (III) chloride as a highly efficient tandem catalyst. Renewable Energy, 2020, 156, 883-892.	8.9	14
2274	Adsorptive Separation of Furfural/5-Hydroxymethylfurfural in MAF-5 with Ellipsoidal Pores. Industrial & Engineering Chemistry Research, 2020, 59, 11734-11742.	3.7	15

#	Article	IF	Citations
2276	Environmentally Friendly Polymer Blends Based on Post-Consumer Glycol-Modified Poly(Ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Materials, 2020, 13, 2673.	2.9	25
2277	Carbohydrates as Hard Segments for Sustainable Elastomers: Carbohydrates Direct the Self-Assembly and Mechanical Properties of Fully Bio-Based Block Copolymers. Macromolecules, 2020, 53, 5408-5417.	4.8	24
2278	Pd(II) and Pt(II) catalysed selective synthesis of furfuryl alcohol: Solvent effects and insights into the mechanism. Journal of Organometallic Chemistry, 2020, 922, 121362.	1.8	14
2279	Renewable Energy from Wildflowersâ€"Perennial Wild Plant Mixtures as a Socialâ€Ecologically Sustainable Biomass Supply System. Advanced Sustainable Systems, 2020, 4, 2000037.	5.3	16
2280	Biosourced terpenoids for the development of sustainable acrylic pressure-sensitive adhesives <i>via</i> emulsion polymerisation. Green Chemistry, 2020, 22, 4561-4569.	9.0	40
2281	Radiolysis as a Powerful Tool for Polymer Waste Recycling. High Energy Chemistry, 2020, 54, 194-204.	0.9	9
2282	Influence of the pendant arm in deoxydehydration catalyzed by dioxomolybdenum complexes supported by amine bisphenolate ligands. New Journal of Chemistry, 2020, 44, 9933-9941.	2.8	14
2283	Biovalorisation of crude glycerol and xylose into xylitol by oleaginous yeast Yarrowia lipolytica. Microbial Cell Factories, 2020, 19, 121.	4.0	38
2284	Enzyme mediated multi-product process: A concept of bio-based refinery. Industrial Crops and Products, 2020, 154, 112607.	5.2	55
2285	Upgrading the chemistry of Ï€-conjugated polymers toward more sustainable materials. Journal of Materials Chemistry C, 2020, 8, 9792-9810.	5.5	36
2286	Synthesis of furoic acid from biomass via tandem pretreatment and biocatalysis. Industrial Crops and Products, 2020, 153, 112580.	5.2	30
2287	Fully Biobased Superpolymers of 2,5-Furandicarboxylic Acid with Different Functional Properties: From Rigid to Flexible, High Performant Packaging Materials. ACS Sustainable Chemistry and Engineering, 2020, 8, 9558-9568.	6.7	88
2288	Synthesis of Poly(Ethylene 2,5-Furanoate): I. Kinetics of 2,5-Dimethyl Ester of Furandicarboxylic Acid Transesterification. Materials Science Forum, 0, 992, 311-316.	0.3	1
2289	5-(Hydroxymethyl)furfural and 5-(glucosyloxymethyl)furfural in multicomponent reactions. , 2020, , 73-100.		4
2290	Purification and immobilization of engineered glucose dehydrogenase: a new approach to producing gluconic acid from breadwaste. Biotechnology for Biofuels, 2020, 13, 100.	6.2	17
2291	Valorization of thermochemical conversion of lipid-extracted microalgae to levulinic acid. Bioresource Technology, 2020, 313, 123684.	9.6	23
2292	Production of Sorbitol via Catalytic Transfer Hydrogenation of Glucose. Applied Sciences (Switzerland), 2020, 10, 1843.	2.5	29
2293	Iridiumâ€Catalyzed Selective Crossâ€Coupling of Ethylene Glycol and Methanol to Lactic Acid. Angewandte Chemie - International Edition, 2020, 59, 10421-10425.	13.8	35

#	Article	IF	Citations
2294	A Novel Route to Synthesize <i>N,</i><scp><i>N</i>â€Dimethyl</scp> Arylmethylamines from Aryl Aldehydes, Hexamethylenetetramine and Hydrogen^{â€}. Chinese Journal of Chemistry, 2020, 38, 842-846.	4.9	3
2295	Enzymatic production of 4-O-methyl d-glucaric acid from hardwood xylan. Biotechnology for Biofuels, 2020, 13, 51.	6.2	17
2296	An Efficient Acetalization Method for Biomassâ€Derived Furfural with Ethanol Using Î³â€Al₂O₃â€Supported Catalysts. ChemistrySelect, 2020, 5, 3458-3470.	1.5	9
2297	Wood-based resins and other bio-based binders for the production of mineral wool. Holzforschung, 2020, 74, 539-550.	1.9	8
2298	Highly selective oxidation of glucose to gluconic acid and glucaric acid in water catalyzed by an efficient synergistic photocatalytic system. Catalysis Science and Technology, 2020, 10, 2231-2241.	4.1	27
2299	Bioprivileged Molecules: Integrating Biological and Chemical Catalysis for Biomass Conversion. Annual Review of Chemical and Biomolecular Engineering, 2020, 11, 63-85.	6.8	27
2300	Cellulose valorization to potential platform chemicals. , 2020, , 433-457.		8
2301	Sustainable Catalytic Synthesis for a Bioâ€Based Alternative to the Reachâ€Restricted <i>N</i>â€Methylâ€2â€Pyrrolidone. Advanced Sustainable Systems, 2020, 4, 1900117.	5.3	10
2302	Which electrode is better for biomass valorization: Cu(OH)2 or CuO nanowire?. Korean Journal of Chemical Engineering, 2020, 37, 556-562.	2.7	18
2303	Chemometric Approach to Quantify 5-Hydroxymethylfurfural and Furfural Obtained from Sugarcane Bagasse and Peanut Hull by UV. Bioenergy Research, 2020, 13, 737-745.	3.9	5
2304	Synergistic chemo/biocatalytic synthesis of 2,5-furandicarboxylic acid from 5-hydroxymethylfurfural. Catalysis Communications, 2020, 139, 105979.	3.3	31
2305	Mechanistic Study on the Efficient Conversion of <scp>d</scp>-Sorbitol to Iodohexanes Mediated by Hydroiodic Acid. Industrial & Engineering Chemistry Research, 2020, 59, 17173-17181.	3.7	3
2306	Mono- and dimeric zinc(<scp>ii</scp>) complexes for PLA production and degradation into methyl lactate â€" a chemical recycling method. Polymer Chemistry, 2020, 11, 2381-2389.	3.9	40
2307	Controlling water dynamics for kinetic inhibition of clathrate hydrate. Fuel, 2020, 271, 117588.	6.4	6
2308	Furan Carboxylic Acids Production with High Productivity by Cofactorâ€engineered Wholeâ€cell Biocatalysts. ChemCatChem, 2020, 12, 3257-3264.	3.7	23
2309	Synthesis of an oxygenated fuel additive from a waste biomass derived aldehyde using a green catalyst: an experimental and DFT study. Sustainable Energy and Fuels, 2020, 4, 2924-2936.	4.9	9
2310	Developing Process Designs for Biorefineriesâ€"Definitions, Categories, and Unit Operations. Energies, 2020, 13, 1493.	3.1	28
2311	Opportunities and Challenges for Organic Electrodes in Electrochemical Energy Storage. Chemical Reviews, 2020, 120, 6490-6557.	47.7	517

#	Article	IF	Citations
2312	Constraints and advances in high-solids enzymatic hydrolysis of lignocellulosic biomass: a critical review. Biotechnology for Biofuels, 2020, 13, 58.	6.2	140
2313	Highâ€level production of 3â€hydroxypropionic acid from glycerol as a sole carbon source using metabolically engineered <i>Escherichia coli</i>. Biotechnology and Bioengineering, 2020, 117, 2139-2152.	3.3	35
2314	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	5.9	117
2315	Using dialkyl amide<i>via</i>forming hydrophobic deep eutectic solvents to separate citric acid from fermentation broth. Green Chemistry, 2020, 22, 2526-2533.	9.0	22
2316	Iridiumâ€Catalyzed Selective Crossâ€Coupling of Ethylene Glycol and Methanol to Lactic Acid. Angewandte Chemie, 2020, 132, 10507-10511.	2.0	9
2317	Acidic seawater improved 5-hydroxymethylfurfural yield from sugarcane bagasse under microwave hydrothermal liquefaction. Environmental Research, 2020, 184, 109340.	7.5	49
2318	Poly(ester amide)s from poly(alkylene succinate)s and rapid crystallizing amido diols: Synthesis, thermal properties and crystallization behavior. European Polymer Journal, 2020, 129, 109622.	5.4	11
2319	Optimized Bioproduction of Itaconic and Fumaric Acids Based on Solid-State Fermentation of Lignocellulosic Biomass. Molecules, 2020, 25, 1070.	3.8	21
2320	Valorization of lignocellulosic-based wastes. , 2020, , 383-410.		11
2321	<i>In situ</i>catalyst reactivation for enhancing alcohol electro-oxidation and coupled hydrogen generation. Chemical Communications, 2020, 56, 4011-4014.	4.1	13
2322	Efficient Preparation of Bio-based <i>n</i>-Butane Directly from Levulinic Acid over Pt/C. Industrial & Engineering Chemistry Research, 2020, 59, 5736-5744.	3.7	6
2323	Reaction Mechanism of Vapor-Phase Formic Acid Decomposition over Platinum Catalysts: DFT, Reaction Kinetics Experiments, and Microkinetic Modeling. ACS Catalysis, 2020, 10, 4112-4126.	11.2	51
2324	Sacrificial Substrate-Free Whole-Cell Biocatalysis for the Synthesis of 2,5-Furandicarboxylic Acid by Engineered <i>Escherichia coli</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 4341-4345.	6.7	26
2325	Review: cascade reactions for conversion of carbohydrates using heteropolyacids as the solid catalysts. Biomass Conversion and Biorefinery, 2022, 12, 2313-2331.	4.6	7
2326	Broadband Dielectric Spectroscopy Study of Biobased Poly(alkylene 2,5-furanoate)sâ€™ Molecular Dynamics. Polymers, 2020, 12, 1355.	4.5	24
2327	Synthesis of Functionalized Aromatic Carboxylic Acids from Biosourced 3-Hydroxy-2-pyrones through a Base-Promoted Domino Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 11152-11161.	6.7	10
2328	Visible-Light-Driven Selective Oxidation of Biomass-Derived HMF to DFF Coupled with H₂ Generation by Noble Metal-Free Zn_{0.5}Cd_{0.5}S/MnO₂ Heterostructures. ACS Applied Energy Materials, 2020, 3, 7138-7148.	5.1	60
2329	Recent advances in hydrothermal carbonisation: from tailored carbon materials and biochemicals to applications and bioenergy. Green Chemistry, 2020, 22, 4747-4800.	9.0	136

#	Article	IF	Citations
2330	Role of BrÃ¸nsted and Lewis acidic sites in sulfonated Zr-MCM-41 for the catalytic reaction of cellulose into 5-hydroxymethyl furfural. Reaction Kinetics, Mechanisms and Catalysis, 2020, 130, 825-836.	1.7	14
2331	Reactive extraction of fructose for efficient separation of sucrose-derived glucosides produced by enzymatic glycosylation. Green Chemistry, 2020, 22, 4985-4994.	9.0	8
2332	Effect of milling and enzymatic hydrolysis in the production of glucose from starch-rich Chlorella sorokiniana biomass. Algal Research, 2020, 50, 101961.	4.6	18
2333	Efficient synthesis of bio-derived polycarbonates from dimethyl carbonate and isosorbide: regulating <i>exo</i>-OH and <i>endo</i>-OH reactivity by ionic liquids. Green Chemistry, 2020, 22, 5357-5368.	9.0	26
2334	Efficient biotransformation of 5-hydroxymethylfurfural to 5-hydroxymethyl-2-furancarboxylic acid by a new whole-cell biocatalyst <i>Pseudomonas aeruginosa</i> PC-1. Reaction Chemistry and Engineering, 2020, 5, 1397-1404.	3.7	21
2335	Hydrogenolysis of tetrahydrofuran-2-carboxylic acid over tungsten-modified rhodium catalyst. Applied Catalysis A: General, 2020, 602, 117723.	4.3	9
2336	Catalytic Processes for Biomass-Derived Platform Molecules Valorisation. Topics in Catalysis, 2020, 63, 846-865.	2.8	16
2337	Chemocatalytic pathways for high-efficiency production of 2,5-dimethylfuran from biomass-derived 5-hydroxymethylfurfural. , 2020, , 377-394.		11
2338	Erythritol: Another C4 Platform Chemical in Biomass Refinery. ACS Omega, 2020, 5, 2520-2530.	3.5	73
2339	Muconic acid isomers as platform chemicals and monomers in the biobased economy. Green Chemistry, 2020, 22, 1517-1541.	9.0	73
2340	Tailoring cellular metabolism in lactic acid bacteria through metabolic engineering. Journal of Microbiological Methods, 2020, 170, 105862.	1.6	19
2341	Influence of the ammonium salts used in the BrÃ¸nsted acid catalyzed hydrothermal decomposition of d-glucose towards 5-HMF. New Journal of Chemistry, 2020, 44, 4171-4176.	2.8	4
2342	Production of Î³â€Valerolactone from Oneâ€Pot Transformation of Biomassâ€Derived Carbohydrates Over Chitosanâ€Supported Ruthenium Catalyst Combined with Zeolite ZSMâ€5. European Journal of Organic Chemistry, 2020, 2020, 1611-1619.	2.4	23
2343	Oxidation of 5-hydroxymethylfurfural to 5-formyl furan-2-carboxylic acid by non-precious transition metal oxide-based catalyst. Journal of Supercritical Fluids, 2020, 160, 104812.	3.2	18
2344	Selective conversion of hemicellulose into furfural over low-cost metal salts in a Î³-valerolactone/water solution. Industrial Crops and Products, 2020, 147, 112248.	5.2	26
2345	Effective bioeconomy? a MRIO-based socioeconomic and environmental impact assessment of generic sectoral innovations. Technological Forecasting and Social Change, 2020, 153, 119946.	11.6	31
2346	Going beyond definitions to understand tensions within the bioeconomy: The contribution of sociotechnical regimes to contested fields. Technological Forecasting and Social Change, 2020, 153, 119923.	11.6	42
2347	Sustainable Chemicals: A Brief Survey of the Furans. Chemistry Africa, 2020, 3, 481-496.	2.4	26

#	Article	IF	Citations
2348	Forestry biorefineries. Renewable Energy, 2020, 154, 461-475.	8.9	54
2349	Hydrogenolysis of biomass-derived sorbitol over La-promoted Ni/ZrO₂ catalysts. RSC Advances, 2020, 10, 3993-4001.	3.6	10
2350	Magnetically assisted commercially attractive chemo-enzymatic route for the production of 5-hydroxymethylfurfural from inulin. Biomass Conversion and Biorefinery, 2021, 11, 2557-2567.	4.6	7
2351	Conversion of furfural to tetrahydrofuran-derived secondary amines under mild conditions. Green Chemistry, 2020, 22, 1832-1836.	9.0	16
2352	Isosorbide as biobased platform chemical: Recent advances. Current Opinion in Green and Sustainable Chemistry, 2020, 21, 82-88.	5.9	33
2353	Ru-ZrO2-SBA-15 as efficient and robust catalyst for the aqueous phase hydrogenation of glucose to sorbitol. Molecular Catalysis, 2020, 484, 110802.	2.0	18
2354	Merger of Whole Cell Biocatalysis with Organocatalysis Upgrades Alcohol Feedstocks in a Mild, Aqueous, One-Pot Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 4114-4119.	6.7	17
2355	Fast and efficient upgrading of levulinic acid into long-chain alkyl levulinate fuel additives with a tungsten salt catalyst at low temperature. Sustainable Energy and Fuels, 2020, 4, 2018-2025.	4.9	28
2356	Recent Advances in Aqueous-Phase Catalytic Conversions of Biomass Platform Chemicals Over Heterogeneous Catalysts. Frontiers in Chemistry, 2019, 7, 948.	3.6	33
2357	An overview of the biphasic dehydration of sugars to 5-hydroxymethylfurfural and furfural: a rational selection of solvents using COSMO-RS and selection guides. Green Chemistry, 2020, 22, 2097-2128.	9.0	140
2358	Catalytic glycerol dehydration-oxidation to acrylic acid. Catalysis Reviews - Science and Engineering, 2020, 62, 481-523.	12.9	24
2359	Review of supported metal nanoparticles: synthesis methodologies, advantages and application as catalysts. Journal of Materials Science, 2020, 55, 6195-6241.	3.7	248
2360	Catalytic production of 5-hydroxymethylfurfural from sucrose and molasses by aluminum chloride in green aqueous Î³-valerolactone system. Biomass Conversion and Biorefinery, 2021, 11, 1931-1941.	4.6	16
2361	Valorization of humin as a glucose derivative to fabricate a porous carbon catalyst for esterification and hydroxyalkylation/alkylation. Waste Management, 2020, 103, 407-415.	7.4	16
2362	Selective hydrogenation of 5-hydroxymethylfurfural and its acetal with 1,3-propanediol to 2,5-bis(hydroxymethyl)furan using supported rhenium-promoted nickel catalysts in water. Green Chemistry, 2020, 22, 1229-1238.	9.0	50
2363	Metabolic engineering of<i>Escherichia coli</i>to produce succinate from woody hydrolysate under anaerobic conditions. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 223-232.	3.0	7
2364	Study on the Dissolution Mechanism of Cellulose by ChCl-Based Deep Eutectic Solvents. Materials, 2020, 13, 278.	2.9	62
2365	Highâ€Molecularâ€Weight Polyampholytes Synthesized via Daylightâ€Induced, Initiatorâ€Free Radical Polymerization of Renewable Itaconic Acid. Macromolecular Rapid Communications, 2020, 41, e1900611.	3.9	14

#	Article	IF	Citations
2366	Topotactic transformation of homogeneous phosphotungastomolybdic acid materials to heterogeneous solid acid catalyst for carbohydrate conversion to alkyl methylfurfural and alkyl levulinate. RSC Advances, 2020, 10, 705-718.	3.6	6
2367	Nickel on nitrogen-doped carbon pellets for continuous-flow hydrogenation of biomass-derived compounds in water. Green Chemistry, 2020, 22, 2755-2766.	9.0	47
2368	On the Economics and Process Design of Renewable Butadiene from Biomass-Derived Furfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 3273-3282.	6.7	22
2369	Production of 5-Hydroxymethylfurfural from Chitin Biomass: A Review. Molecules, 2020, 25, 541.	3.8	35
2370	Photocatalytic transfer hydrogenolysis of aromatic ketones using alcohols. Green Chemistry, 2020, 22, 3802-3808.	9.0	19
2371	High-value chemicals from marine diatoms: a biorefinery approach. IOP Conference Series: Earth and Environmental Science, 2020, 460, 012012.	0.3	6
2372	Recent Advances in Ruthenium-Catalyzed Hydrogenation Reactions of Renewable Biomass-Derived Levulinic Acid in Aqueous Media. Frontiers in Chemistry, 2020, 8, 221.	3.6	61
2373	High-Level Production of Succinic Acid from Crude Glycerol by a Wild Type Organism. Catalysts, 2020, 10, 470.	3.5	20
2374	Scalable synthesis and polymerisation of a Î²-angelica lactone derived monomer. Green Chemistry, 2020, 22, 5267-5273.	9.0	10
2375	The Influence of the Gold Particle Size on the Catalytic Oxidation of 5-(Hydroxymethyl)furfural. Catalysts, 2020, 10, 342.	3.5	20
2376	Greenhouse Gas Abatement Potentials and Economics of Selected Biochemicals in Germany. Sustainability, 2020, 12, 2230.	3.2	7
2377	Rank-Ordered Analysis of Consumer Preferences for the Attributes of a Value-Added Biofuel Co-Product. Sustainability, 2020, 12, 2363.	3.2	4
2378	Achieving effective fructose-to-5-hydroxymethylfurfural conversion via facile synthesis of large surface phosphate-functionalized porous organic polymers. Applied Catalysis B: Environmental, 2020, 271, 118942.	20.2	43
2379	Selective Catalytic Dehydration of Xylose to Furfural and Fructose and Glucose to 5â€Hydroximethylfurfural (HMF) Using Preyssler Heteropolyacid. ChemistrySelect, 2020, 5, 4186-4193.	1.5	18
2380	Toward Green Battery Cells: Perspective on Materials and Technologies. Small Methods, 2020, 4, 2000039.	8.6	177
2381	5-Ethoxymethylfurfuralâ€”a remarkable biofuel candidate. , 2020, , 355-375.		3
2382	Mechanistic Investigation of Biomass Oxidation Using Nickel Oxide Nanoparticles in a CO₂-Saturated Electrolyte for Paired Electrolysis. Journal of Physical Chemistry Letters, 2020, 11, 2941-2948.	4.6	88
2383	Properties and activity of Znâ€“Ta-TUD-1 in the Lebedev process. Green Chemistry, 2020, 22, 2558-2574.	9.0	17

#	Article	IF	Citations
2384	One-Pot Deconstruction and Conversion of Lignocellulose Into Reducing Sugars by Pyridinium-Based Ionic Liquidâ€"Metal Salt System. Frontiers in Chemistry, 2020, 8, 236.	3.6	22
2385	Recent advances in domesticating nonâ€model microorganisms. Biotechnology Progress, 2020, 36, e3008.	2.6	32
2386	Enzymatic Synthesis of Aliphatic Primary Ï‰-Amino Alcohols from Ï‰-Amino Fatty Acids by Carboxylic Acid Reductase. Catalysis Letters, 2020, 150, 3079-3085.	2.6	8
2387	Technoâ€Economic Analysis for Production ofÂ<i>L</i>â€Arabitol from <i>L</i>â€Arabinose. Chemical Engineering and Technology, 2020, 43, 1260-1267.	1.5	4
2388	Evaluation of Pore Structure of Polarity-Controllable Post-Cross-Linked Adsorption Resins on the Adsorption Performance of 5-Hydroxymethylfurfural in Both Single- and Ternary-Component Systems. Industrial & Engineering Chemistry Research, 2020, 59, 17575-17586.	3.7	16
2389	Lignocellulose-derived platform molecules. , 2020, , 1-31.		6
2390	Ruâ€Catalyzed Carbonylative Murai Reaction: Directed C3â€Acylation of Biomassâ€Derived 2â€Formyl Heteroaromatics. Advanced Synthesis and Catalysis, 2020, 362, 2486-2493.	4.3	16
2391	5-Hydroxymethylfurfuralâ€"a C6 precursor for fuels and chemicals. , 2020, , 61-94.		3
2392	Inexpensive and tuneable protic ionic liquids based on sulfuric acid for the biphasic synthesis of alkyl levulinates. Journal of Molecular Liquids, 2020, 308, 113166.	4.9	19
2393	Production of a Renewable Functionalized 1,3-Diene from Furfuralâ€"Acetone Adduct over Supported Heteropolyacid Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 7214-7224.	6.7	9
2394	Co(salen)-Catalyzed Oxidation of Lignin Models to Form Benzoquinones and Benzaldehydes: A Computational and Experimental Study. ACS Sustainable Chemistry and Engineering, 2020, 8, 7225-7234.	6.7	18
2395	Production of furfural from xylose catalyzed by a novel calcium gluconate derived carbon solid acid in 1,4-dioxane. New Journal of Chemistry, 2020, 44, 7968-7975.	2.8	18
2396	Catalytic transfer hydrogenation of biomass-derived levulinic acid to Î³-valerolactone over Sn/Al-SBA-15 catalysts. New Journal of Chemistry, 2020, 44, 8209-8222.	2.8	38
2397	Microwave-assisted catalytic conversion of glucose to 5-hydroxymethylfurfural using â€œthree dimensionalâ€• graphene oxide hybrid catalysts. RSC Advances, 2020, 10, 11727-11736.	3.6	18
2398	Oxidation of lignocellulosic platform molecules to value-added chemicals using heterogeneous catalytic technologies. Catalysis Science and Technology, 2020, 10, 2721-2757.	4.1	60
2399	Green conversion of 5â€hydroxymethylfurfural to furanâ€2,5â€dicarboxylic acid by heterogeneous expression of 5â€hydroxymethylfurfural oxidase in <i>Pseudomonas putida</i> S12. Microbial Biotechnology, 2020, 13, 1094-1102.	4.2	23
2400	Current advances on waste biomass transformation into value-added products. Applied Microbiology and Biotechnology, 2020, 104, 4757-4770.	3.6	58
2401	Furfural as a platform chemical. , 2020, , 283-297.		45

#	Article	IF	Citations
2402	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. Critical Reviews in Environmental Science and Technology, 2021, 51, 1479-1532.	12.8	50
2403	Valorization of Sugarcane Bagasse to a Platform Chemical (Levulinic Acid) Catalysed by 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate ([BMMim][BF4]). Waste and Biomass Valorization, 2021, 12, 199-209.	3.4	8
2404	Conversion of succinic acid over Ni and Co catalysts. Catalysis Today, 2021, 367, 165-176.	4.4	3
2405	Residual Mexican biomasses for bioenergy and fine chemical production: correlation between composition and specific applications. Biomass Conversion and Biorefinery, 2021, 11, 619-631.	4.6	21
2406	Green synthesis of amyl levulinate using lipase in the solvent free system: Optimization, mechanism and thermodynamics studies. Catalysis Today, 2021, 375, 120-131.	4.4	18
2407	Catalytic Transesterification Routes to Novel Vinyl Glycolate Derivatives of Polyhydric Alcohols. Catalysis Letters, 2021, 151, 8-16.	2.6	3
2408	Effect of Ni Metal Content on Emulsifying Properties of Ni/CNTox Catalysts for Catalytic Conversion of Furfural in Pickering Emulsions. ChemCatChem, 2021, 13, 682-694.	3.7	11
2409	Upgrading of biomass-derived liquids in a biorefinery context: Hydroisomerization and fluid catalytic cracking of heavy naphtha on bench and pilot scale. Catalysis Today, 2021, 379, 141-148.	4.4	2
2410	A review on solvent systems for furfural production from lignocellulosic biomass. Renewable and Sustainable Energy Reviews, 2021, 137, 110172.	16.4	131
2411	Biomass valorisation over polyoxometalate-based catalysts. Green Chemistry, 2021, 23, 18-36.	9.0	101
2412	NNN Pincerâ€functionalized Porous Organic Polymer Supported Ru(III) as a Heterogeneous Catalyst for Levulinic Acid Hydrogenation to Î³â€Valerolactone. ChemCatChem, 2021, 13, 695-703.	3.7	15
2413	Beyond GDP: Saving the Planet by Measuring the Effectiveness of Policies. Encyclopedia of the UN Sustainable Development Goals, 2021, , 35-49.	0.1	0
2414	Chemo-Catalytic Transformation of Cellulose and Cellulosic-Derived Waste Materials into Platform Chemicals. Waste and Biomass Valorization, 2021, 12, 2825-2851.	3.4	11
2415	Furfural production from rice husks within a biorefinery framework. Biomass Conversion and Biorefinery, 2021, 11, 781-794.	4.6	22
2416	Promising advancement in fermentative succinic acid production by yeast hosts. Journal of Hazardous Materials, 2021, 401, 123414.	12.4	48
2417	Tuning of Delicate Hostâ€"Guest Interactions in Hydrated MILâ€53 and Functional Variants for Furfural Capture from Aqueous Solution. Angewandte Chemie - International Edition, 2021, 60, 1629-1634.	13.8	17
2418	Screening method to prioritize relevant bioâ€based acids and their biochemical processes using recent patent information. Biofuels, Bioproducts and Biorefining, 2021, 15, 231-249.	3.7	12
2419	An Account of the Catalytic Transfer Hydrogenation and Hydrogenolysis of Carbohydrateâ€Derived Renewable Platform Chemicals over Nonâ€Precious Heterogeneous Metal Catalysts. ChemCatChem, 2021, 13, 59-80.	3.7	36

#	Article	IF	Citations
2420	Lignocellulosic biomass as sustainable feedstock and materials for power generation and energy storage. Journal of Energy Chemistry, 2021, 57, 247-280.	12.9	225
2421	Coupling electrochemical carbon dioxide conversion with value-added anode processes: An emerging paradigm. Current Opinion in Electrochemistry, 2021, 25, 100621.	4.8	34
2422	The formation of 5-hydroxymethylfurfural and hydrochar during the valorization of biomass using a microwave hydrothermal method. Science of the Total Environment, 2021, 755, 142499.	8.0	26
2423	Selective Hydrogenolysis of Erythritol over Irâˆ’ReO_{<i>x</i>}/Rutileâ€TiO₂ Catalyst. ChemSusChem, 2021, 14, 642-654.	6.8	26
2424	Tuning of Delicate Hostâ€“Guest Interactions in Hydrated MILâ€53 and Functional Variants for Furfural Capture from Aqueous Solution. Angewandte Chemie, 2021, 133, 1653-1658.	2.0	4
2425	Synthesis pathway and combustion mechanism of a sustainable biofuel 2,5-Dimethylfuran: Progress and prospective. Fuel, 2021, 286, 119337.	6.4	34
2426	Sugarcane bagasse based biorefineries in India: potential and challenges. Sustainable Energy and Fuels, 2021, 5, 52-78.	4.9	62
2427	Atom efficient PtCu bimetallic catalysts and ultra dilute alloys for the selective hydrogenation of furfural. Applied Catalysis B: Environmental, 2021, 284, 119737.	20.2	49
2428	Progress in the Free and Controlled Radical Homoâ€and Coâ€Polymerization of Itaconic Acid Derivatives: Toward Functional Polymers with Controlled Molar Mass Distribution and Architecture. Macromolecular Rapid Communications, 2021, 42, e2000546.	3.9	30
2429	Liquidâ€“Liquid Equilibria for the <i>n</i>-Pentyl acetate, <i>n</i>-Hexyl acetate, <i>n</i>-Pentanol, or <i>n</i>-Hexanol + Furfural + Water Systems at 298 and 323 K. Journal of Chemical & Engineering Data, 2021, 66, 210-221.	1.9	2
2430	Production of biomass-derived monomers through catalytic conversion of furfural and hydroxymethylfurfural. Green Chemical Engineering, 2021, 2, 158-173.	6.3	14
2431	Overview of sustainable fuel and energy technologies. , 2021, , 3-25.		4
2432	Catalytic Câˆ’H Functionalization of Unreactive Furan Cores in Bioâ€Derived Platform Chemicals. ChemSusChem, 2021, 14, 558-568.	6.8	19
2433	Control of Crystallinity and Stereocomplexation of Synthetic Carbohydrate Polymers from <scp>d</scp>â€and <scp>l</scp>â€Xylose. Angewandte Chemie - International Edition, 2021, 60, 4524-4528.	13.8	29
2434	Different Facets of Lignocellulosic Biomass Including Pectin and Its Perspectives. Waste and Biomass Valorization, 2021, 12, 4805-4823.	3.4	34
2435	Xylan and xylose decomposition during hot water pre-extraction: A pH-regulated hydrolysis. Carbohydrate Polymers, 2021, 255, 117391.	10.2	21
2436	New (and Old) Monomers from Biorefineries to Make Polymer Chemistry More Sustainable. Macromolecular Rapid Communications, 2021, 42, e2000485.	3.9	19
2437	Biomass-based biorefineries: An important architype towards a circular economy. Fuel, 2021, 288, 119622.	6.4	147

#	Article	IF	Citations
2438	Bioeconomy as a transforming driver of intensive greenhouse horticulture in SE Spain. New Biotechnology, 2021, 61, 50-56.	4.4	11
2439	A promising approach to transform levulinic acid into Î³-valerolactone using niobic acid photocatalyst and the accumulated electron transfer technique. Applied Catalysis B: Environmental, 2021, 285, 119814.	20.2	23
2440	Chemically recyclable glycerol-biobased polyether thermosets. European Polymer Journal, 2021, 143, 110174.	5.4	10
2441	One-pot conversion of levulinic acid into gamma-valerolactone over a stable Ru tungstosphosphoric acid catalyst. Fuel, 2021, 289, 119900.	6.4	14
2442	Sono- and mechanochemical technologies in the catalytic conversion of biomass. Chemical Society Reviews, 2021, 50, 1785-1812.	38.1	64
2443	Low carbon hydrogen production from a waste-based biorefinery system and environmental sustainability assessment. Green Chemistry, 2021, 23, 561-574.	9.0	90
2444	Control of Crystallinity and Stereocomplexation of Synthetic Carbohydrate Polymers from <scp>d</scp>â€•and <scp>l</scp>â€Xylose. Angewandte Chemie, 2021, 133, 4574-4578.	2.0	8
2445	Recent advances in heterogeneous catalytic transfer hydrogenation/hydrogenolysis for valorization of biomass-derived furanic compounds. Green Chemistry, 2021, 23, 670-688.	9.0	106
2446	Development of polylactic acid-based materials with highly and balanced mechanical performances via incorporating a furan ring-containing unsaturated copolyester. Composites Communications, 2021, 23, 100543.	6.3	6
2447	Thermochemical conversion of defatted microalgae Scenedesmus obliquus into levulinic and formic acids. Fuel, 2021, 283, 118907.	6.4	20
2448	Bioglycerol (C3) upgrading to 2,3â€butanediol (C4) by cellâ€free extracts of Enterobacter aerogenes NCIM 2695. Journal of Chemical Technology and Biotechnology, 2021, 96, 1316-1325.	3.2	1
2449	Surface kinetics and transport phenomena modelling for furfural hydrotreatment over Pd/C in isopropanol and tetrahydrofuran. Applied Surface Science, 2021, 541, 148485.	6.1	13
2450	Life cycle assessment: Blazing a trail for bioresources management. Energy Conversion and Management: X, 2021, 10, 100063.	1.6	14
2451	Exploring Divergent Green Reaction Media for the Copolymerization of Biobased Monomers in the Teaching Laboratory. Journal of Chemical Education, 2021, 98, 559-566.	2.3	3
2452	Milder operating parameters for oneâ€step conversion of fructose to levulinic acid over sulfonated Hâ€Î² zeolite in aqueous media. Environmental Progress and Sustainable Energy, 2021, 40, .	2.3	6
2453	Toward the Next Generation of Sustainable Membranes from Green Chemistry Principles. ACS Sustainable Chemistry and Engineering, 2021, 9, 50-75.	6.7	110
2454	The promises of drop-in vs. functional innovations: The case of bioplastics. Ecological Economics, 2021, 181, 106886.	5.7	11
2455	Inline Raman Spectroscopy and Indirect Hard Modeling for Concentration Monitoring of Dissociated Acid Species. Applied Spectroscopy, 2021, 75, 506-519.	2.2	7

#	Article	IF	Citations
2456	Microbial Lipid Production from Lignocellulosic Biomass Pretreated by Effective Pretreatment. , 2021, , 175-206.		1
2457	Reaction Characteristics of Organosolv-Fractionation Process for Selective Extraction of Carbohydrates and Lignin from Rice Husks. Energies, 2021, 14, 686.	3.1	2
2458	Genome-based engineering of ligninolytic enzymes in fungi. Microbial Cell Factories, 2021, 20, 20.	4.0	29
2459	Metal-free bifunctional graphene oxide-based carbocatalysts toward reforming biomass from glucose to 5-hydroxymethylfurfural. Nanoscale, 2021, 13, 10143-10151.	5.6	5
2460	Solvolysis of benzyl phenyl ether in high-temperature aqueous methanol solution under high-pressure carbon dioxide. Green Chemistry, 2021, 23, 1658-1664.	9.0	5
2461	Tuning the Selective Adsorption Site of Biomass on Co₃O₄ by Ir Single Atoms for Electrosynthesis. Advanced Materials, 2021, 33, e2007056.	21.0	217
2462	Levulinic acid hydrogenation to Î³-valerolactone over single Ru atoms on a TiO₂@nitrogen doped carbon support. Green Chemistry, 2021, 23, 1621-1627.	9.0	46
2463	Single-step preparation of zinco- and aluminosilicate delaminated MWW layers for the catalytic conversion of glucose. Green Chemistry, 2021, 23, 9489-9501.	9.0	13
2464	A plug-and-play chemobiocatalytic route for the one-pot controllable synthesis of biobased C4 chemicals from furfural. Green Chemistry, 2021, 23, 8604-8610.	9.0	12
2465	Conversion of glucose to levulinic acid and upgradation to Î³-valerolactone on Ru/TiO₂ catalysts. New Journal of Chemistry, 2021, 45, 14406-14413.	2.8	5
2466	Oxidation of 5-Hydroxymethylfurfural on Supported Ag, Au, Pd and Bimetallic Pd-Au Catalysts: Effect of the Support. Catalysts, 2021, 11, 115.	3.5	20
2467	Uncoupling growth and succinic acid production in an industrial <i>Saccharomyces cerevisiae</i> strain. Biotechnology and Bioengineering, 2021, 118, 1557-1567.	3.3	12
2468	The Piancatelli rearrangement of non-symmetrical furan-2,5-dicarbinols for the synthesis of highly functionalized cyclopentenones. Organic Chemistry Frontiers, 2021, 8, 2449-2455.	4.5	9
2469	Macroalgae-derived rare sugars: Applications and catalytic synthesis. Carbon Resources Conversion, 2021, 4, 150-163.	5.9	13
2470	Catalytic valorization of lignocellulosics: from bulk biofuels to valueâ€added chemicals. Biofuels, Bioproducts and Biorefining, 2021, 15, 592-608.	3.7	7
2471	Paired electrolysis of 5-(hydroxymethyl)furfural in flow cells with a high-performance oxide-derived silver cathode. Green Chemistry, 2021, 23, 5056-5063.	9.0	41
2472	Improved slit-shaped microseparator and its integration with a microreactor for modular biomanufacturing. Green Chemistry, 2021, 23, 3700-3714.	9.0	6
2473	Sulfidation of nickel foam with enhanced electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. Dalton Transactions, 2021, 50, 10922-10927.	3.3	21

#	Article	IF	Citations
2474	Poly(propylene vanillate): A Sustainable Lignin-Based Semicrystalline Engineering Polyester. ACS Sustainable Chemistry and Engineering, 2021, 9, 1383-1397.	6.7	20
2475	Xylochemicals and where to find them. Chemical Communications, 2021, 57, 9979-9994.	4.1	5
2476	Solid Acid-Catalyzed Esterification of Levulinic Acid for Production of Value-Added Chemicals. , 2021, , 345-382.		3
2477	Biobased aliphatic polyesters from a spirocyclic dicarboxylate monomer derived from levulinic acid. Green Chemistry, 2021, 23, 5706-5723.	9.0	11
2478	Recent trends in the development of high-performance microbial cell factories for production of bio-based chemicals. , 2021, , 241-246.		1
2479	A CuMn₂O₄ spinel oxide as a superior catalyst for the aerobic oxidation of 5-hydroxymethylfurfural toward 2,5-furandicarboxylic acid in aqueous solvent. Catalysis Science and Technology, 2021, 11, 1497-1509.	4.1	33
2480	Sustainable Lactic Acid Production from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2021, 9, 1341-1351.	6.7	72
2481	Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. Catalysis Science and Technology, 2021, 11, 3353-3363.	4.1	12
2482	Role of Soil Microbes and Their Cell Components in Carbon Stabilization. , 2021, , 169-204.		0
2483	The processing-module assembly strategy for continuous bio-oxidation of furan chemicals by integrated and coupled biotechnology. Green Chemistry, 2021, 23, 1330-1336.	9.0	13
2484	Electrochemical oxidation of biomass derived 5-hydroxymethylfurfural (HMF): pathway, mechanism, catalysts and coupling reactions. Green Chemistry, 2021, 23, 4228-4254.	9.0	191
2485	Organocatalyzed closed-loop chemical recycling of thermo-compressed films of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	16
2486	Electrochemical biomass upgrading on CoOOH nanosheets in a hybrid water electrolyzer. Green Chemistry, 2021, 23, 2525-2530.	9.0	31
2487	Catalytic Conversion of Alcohols into Value-Added Products. , 2021, , 505-590.		0
2488	Sustainable agricultural waste diversity: advances in green energy and materials production. , 2021, , 55-73.		1
2489	Polymers from sugars and CS₂: ring opening copolymerisation of a <scp>d</scp>-xylose anhydrosugar oxetane. Polymer Chemistry, 2021, 12, 4253-4261.	3.9	21
2490	Hydrodeoxygenation of C4â€“C6 sugar alcohols to diols or mono-alcohols with the retention of the carbon chain over a silica-supported tungsten oxide-modified platinum catalyst. Green Chemistry, 2021, 23, 5665-5679.	9.0	23
2491	Development of completely furfural-based renewable polyesters with controllable properties. Green Chemistry, 2021, 23, 2437-2448.	9.0	20

#	Article	IF	Citations
2492	Preparation of the Ru/HZSM-5 catalyst and its catalytic performance for the 2-pentanone hydrodeoxygenation reaction. New Journal of Chemistry, 2021, 45, 17692-17698.	2.8	5
2493	A nitrogen-doped carbon modified nickel catalyst for the hydrogenation of levulinic acid under mild conditions. Green Chemistry, 2021, 23, 7065-7073.	9.0	22
2494	Production of HMF, FDCA and their derived products: a review of life cycle assessment (LCA) and techno-economic analysis (TEA) studies. Green Chemistry, 2021, 23, 3154-3171.	9.0	109
2495	Unlocking the potential of furan-based poly(ester amide)s: an investigation of crystallization, molecular dynamics and degradation kinetics of novel poly(ester amide)s based on renewable poly(propylene furanoate). Polymer Chemistry, 2021, 12, 5518-5534.	3.9	13
2496	Conversion of Glucose to 5-Hydroxymethylfurfural, Levulinic Acid, and Formic Acid in 1,3-Dibutyl-2-(2-butoxyphenyl)-4,5-diphenylimidazolium Iodide-Based Ionic Liquid. Applied Sciences (Switzerland), 2021, 11, 989.	2.5	20
2497	CaCl₂ molten salt hydrate-promoted conversion of carbohydrates to 5-hydroxymethylfurfural: an experimental and theoretical study. Green Chemistry, 2021, 23, 2058-2068.	9.0	19
2498	Highly Ordered Mesoporous Co₃O₄ Electrocatalyst for Efficient, Selective, and Stable Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemSusChem, 2021, 14, 5199-5206.	6.8	38
2500	Selective Hydrogenation of Furfural over the Co-Based Catalyst: A Subtle Synergy with Ni and Zn Dopants. ACS Applied Materials & Interfaces, 2021, 13, 8507-8517.	8.0	49
2501	Recent Advances in Organocatalytic Ring-opening Polymerization. Current Organic Chemistry, 2021, 25, 272-286.	1.6	4
2502	Application of vanadyl hydrogen phosphate/KIT-6 composites as a catalyst for dehydration of sucrose. Journal of the Iranian Chemical Society, 2021, 18, 2291-2302.	2.2	2
2503	Toward Value-Added Dicarboxylic Acids from Biomass Derivatives via Thermocatalytic Conversion. ACS Catalysis, 2021, 11, 2524-2560.	11.2	75
2504	Boosting Highly Ordered Porosity in Lanthanum Metal-Organic Frameworks for Ring-Opening Polymerization of Î³-Butyrolactone. CheM, 2021, 7, 463-479.	11.7	21
2505	Advances, Challenges, and Opportunities of Poly(Î³-butyrolactone)-Based Recyclable Polymers. ACS Macro Letters, 2021, 10, 284-296.	4.8	40
2506	Biobased C₆-Furans in Organic Synthesis and Industry: Cycloaddition Chemistry as a Key Approach to Aromatic Building Blocks. ACS Sustainable Chemistry and Engineering, 2021, 9, 3011-3042.	6.7	44
2507	Assessment of ion exchange resins as catalysts for the direct transformation of fructose into butyl levulinate. Applied Catalysis A: General, 2021, 612, 117988.	4.3	22
2508	Exploiting Nature's Most Abundant Polymers: Developing New Pathways for the Conversion of Cellulose, Hemicellulose, Lignin and Chitin into Platform Molecules (and Beyond). Chemistry - an Asian Journal, 2021, 16, 604-620.	3.3	16
2509	Improved Bio-Synthesis of 2,5-bis(hydroxymethyl)furan by Burkholderia contaminans NJPI-15 With Co-substrate. Frontiers in Chemistry, 2021, 9, 635191.	3.6	15
2510	Catalytic Conversion of Biomass to Furanic Derivatives with Deep Eutectic Solvents. ChemSusChem, 2021, 14, 1496-1506.	6.8	42

#	Article	IF	Citations
2511	Oxidative Esterification of 5-Hydroxymethylfurfural into Dimethyl 2,5-Furandicarboxylate Using Gamma Alumina-Supported Gold Nanoparticles. ACS Omega, 2021, 6, 4740-4748.	3.5	16
2512	Advances in Electrochemical Modification Strategies of 5â€Hydroxymethylfurfural. ChemSusChem, 2021, 14, 1674-1686.	6.8	47
2513	Tuning thermo-mechanical properties of poly(lactic acid) films through blending with bioderived poly(alkylene furanoate)s with different alkyl chain length for sustainable packaging. Polymer, 2021, 218, 123527.	3.8	29
2514	<i>p</i>â€Menthadienes as Biorenewable Feedstocks for a Monoterpeneâ€Based Biorefinery. Advanced Sustainable Systems, 2021, 5, 2000292.	5.3	13
2515	Incorporation of Al³⁺ Sites on BrÃ¸nsted Acid Metalâ€"Organic Frameworks for Glucoseâ€toâ€Hydroxylmethylfurfural Transformation. Small, 2021, 17, e2006541.	10.0	17
2516	Synthetic approaches to 2,5-bis(hydroxymethyl)furan (BHMF): a stable bio-based diol. Pure and Applied Chemistry, 2021, 93, 551-560.	1.9	9
2517	Novel biorefining method for succinic acid processed from sugarcane bagasse. Bioresource Technology, 2021, 324, 124615.	9.6	27
2518	Structureâ€"Reactivity Effects of Biomassâ€based Hydroxyacids for Sustainable Electrochemical Hydrogen Production. ChemSusChem, 2021, 14, 1902-1912.	6.8	7
2519	Ethanol: Unlocking an Abundant Renewable C 2 â€Feedstock for Catalytic Enantioselective Câˆ'C Coupling. Angewandte Chemie, 2021, 133, 10636-10640.	2.0	0
2520	Looking into More Eyes Combining <i>In Situ</i> Spectroscopy in Catalytic Biofuel Upgradation with Composition-Graded Agâ€"Co Coreâ€"Shell Nanoalloys. ACS Sustainable Chemistry and Engineering, 2021, 9, 3750-3767.	6.7	15
2521	Value-Added By-Products During Dark Fermentation of Agro-Industrial Residual Biomass: Metabolic Pathway Analysis. Waste and Biomass Valorization, 2021, 12, 5937-5948.	3.4	5
2522	Metabolic engineering of Saccharomyces cerevisiae for the production of top value chemicals from biorefinery carbohydrates. Biotechnology Advances, 2021, 47, 107697.	11.7	67
2523	Reductive Conversion of Biomass-Derived Furancarboxylic Acids with Retention of Carboxylic Acid Moiety. Transactions of Tianjin University, 2021, 27, 165-179.	6.4	21
2524	Mechanochemical Functionalization of Mesoporous Carbons for the Catalytic Transformation of <i>trans</i>-Ferulic Acid into Vanillin. ACS Sustainable Chemistry and Engineering, 2021, 9, 4704-4710.	6.7	5
2525	The preparation of sorbitol and its application in polyurethane: a review. Polymer Bulletin, 2022, 79, 2667-2684.	3.3	25
2526	Aza-Michael Reaction as a Greener, Safer, and More Sustainable Approach to Biobased Polyurethane Thermosets. ACS Sustainable Chemistry and Engineering, 2021, 9, 4872-4884.	6.7	23
2527	Techno-economics of lignocellulose biorefineries at South African sugar mills using the biofine process to co-produce levulinic acid, furfural and electricity along with gamma valeractone. Biomass and Bioenergy, 2021, 146, 106008.	5.7	17
2528	Solventâ€Promoted Oxidation of Aromatic Alcohols/Aldehydes to Carboxylic Acids by a Laccaseâ€TEMPO System: Efficient Access to 2,5â€Furandicarboxylic Acid and 5â€Methylâ€2â€Pyrazinecarboxylic Acid. Advanced Sustainable Systems, 2021, 5, 2000297.	5.3	19

#	Article	IF	Citations
2529	Ethanol: Unlocking an Abundant Renewable C 2 â€Feedstock for Catalytic Enantioselective Câ˘C Coupling. Angewandte Chemie - International Edition, 2021, 60, 10542-10546.	13.8	14
2530	Separation of bio-products by liquidâ€"liquid extraction. Physical Sciences Reviews, 2021, 6, .	0.8	4
2531	Two-steps synthesis of D-glucaric acid via D-gluconic acid by electrocatalytic oxidation of D-glucose on gold electrode: Influence of operational parameters. Electrochimica Acta, 2021, 374, 137852.	5.2	25
2532	In silico and in vitro Studies of Imidazolium Ionic Liquids as Effective Antibacterial Agents against Multidrug Resistant Escherichia coli Strains. Current Bioactive Compounds, 2021, 17, 130-144.	0.5	0
2533	Evaluation of Palm Oil Eco-Industrial Park Configurations: VIKOR with Stability Analysis. Process Integration and Optimization for Sustainability, 2021, 5, 303-316.	2.6	3
2534	Formic Acid Electrooxidation on Pt or Pd Monolayer on Transition-Metal Single Crystals: A First-Principles Structure Sensitivity Analysis. ACS Catalysis, 2021, 11, 5294-5309.	11.2	15
2535	Selectively reductive amination of levulinic acid with aryl amines to N-substituted aryl pyrroles. Green Energy and Environment, 2023, 8, 438-443.	8.7	4
2536	Recent advances in the valorization of plant biomass. Biotechnology for Biofuels, 2021, 14, 102.	6.2	122
2537	A framework for the design and analysis of integrated multi-product biorefineries from agricultural and forestry wastes. Renewable and Sustainable Energy Reviews, 2021, 139, 110687.	16.4	62
2538	Statistical optimization of levulinic acid and formic acid production from lipid-extracted residue of Chlorella vulgaris. Journal of Environmental Chemical Engineering, 2021, 9, 105142.	6.7	21
2539	Socio-Economic and Environmental Impacts of Biomass Valorisation: A Strategic Drive for Sustainable Bioeconomy. Sustainability, 2021, 13, 4200.	3.2	32
2540	Synthesis of bio-additive fuels from glycerol acetalization over a heterogeneous Ta/W mixed addenda heteropolyacid catalyst. Fuel Processing Technology, 2021, 214, 106705.	7.2	15
2541	Alkyl carbonate derivatives of furanics: A family of bio-based stable compounds. Sustainable Chemistry and Pharmacy, 2021, 19, 100352.	3.3	12
2542	Advances in the development of biobased epoxy resins: insight into more sustainable materials and future applications. International Materials Reviews, 2022, 67, 119-149.	19.3	42
2543	Platform chemicals production from lipid-extracted Chlorella vulgaris through an eco-friendly catalyst. Korean Journal of Chemical Engineering, 2021, 38, 997-1005.	2.7	6
2544	One step forward, two steps back: Transcriptional advancements and fermentation phenomena in Actinobacillus succinogenes 130Z. PLoS ONE, 2021, 16, e0245407.	2.5	5
2545	Perspectives on Multifunctional Catalysts Derived from Layered Double Hydroxides toward Upgrading Reactions of Biomass Resources. ACS Catalysis, 2021, 11, 6440-6454.	11.2	46
2546	Two-dimensional selenium and its composites for device applications. Nano Research, 2022, 15, 104-122.	10.4	26

#	Article	IF	Citations
2547	Cascade conversion of glucose to 5-hydroxymethylfurfural over BrÃ¶nsted-Lewis bi-acidic SnAl-beta zeolites. Korean Journal of Chemical Engineering, 2021, 38, 1161-1169.	2.7	10
2548	Cellulose Recovery from Agri-Food Residues by Effective Cavitational Treatments. Applied Sciences (Switzerland), 2021, 11, 4693.	2.5	20
2549	Switching metabolic flux by engineering tryptophan operon-assisted CRISPR interference system in Klebsiella pneumoniae. Metabolic Engineering, 2021, 65, 30-41.	7.0	12
2550	Direct catalytic conversion of bagasse fibers to furan building blocks in organic and ionic solvents. Biomass Conversion and Biorefinery, 2023, 13, 6037-6048.	4.6	2
2551	A Redox-Neutral, Two-Enzyme Cascade for the Production of Malate and Gluconate from Pyruvate and Glucose. Applied Sciences (Switzerland), 2021, 11, 4877.	2.5	2
2554	Synthesis of 5-hydroxymethylfurfural from dehydration of biomass-derived glucose and fructose using supported metal catalysts. Green Synthesis and Catalysis, 2021, 2, 187-197.	6.8	37
2555	Efficient direct conversion of lignocellulosic biomass into biobased platform chemicals in ionic liquid-water medium. Renewable Energy, 2021, 169, 1051-1057.	8.9	26
2556	Preparation of 5-hydroxymethylfurfural from cellulose catalyzed by chemical bond anchoring catalyst HfxZr1â^'xP/SiO2. Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 157-171.	1.7	5
2557	Niobium phosphates as bifunctional catalysts for the conversion of biomass-derived monosaccharides. Applied Catalysis A: General, 2021, 617, 118099.	4.3	18
2558	Culture conditions affect Lactobacillus reuteri DSM 17938 ability to perform glycerol bioconversion into 3-hydroxypropionic acid. Journal of Bioscience and Bioengineering, 2021, 131, 501-508.	2.2	2
2559	Multifunctionality of Reduced Graphene Oxide in Bioderived Polylactide/Poly(Dodecylene Furanoate) Nanocomposite Films. Molecules, 2021, 26, 2938.	3.8	16
2560	Overproduction of D-pantothenic acid via fermentation conditions optimization and isoleucine feeding from recombinant Escherichia coli W3110. 3 Biotech, 2021, 11, 295.	2.2	11
2561	Life cycle and economic assessment of sugarcane bagasse valorization to lactic acid. Waste Management, 2021, 126, 52-64.	7.4	35
2562	From useless humins by-product to Nb@graphite-like carbon catalysts highly efficient in HMF synthesis. Applied Catalysis A: General, 2021, 618, 118130.	4.3	18
2563	Extraction of Furfural and Furfural/5-Hydroxymethylfurfural from Mixed Lignocellulosic Biomass-Derived Feedstocks. ACS Sustainable Chemistry and Engineering, 2021, 9, 7489-7498.	6.7	18
2565	Avoiding Pitfalls in Comparison of Activity and Selectivity of Solid Catalysts for Electrochemical HMF Oxidation. ChemistryOpen, 2021, 10, 600-606.	1.9	6
2566	Nitrogen-doped Co3O4 nanowires enable high-efficiency electrochemical oxidation of 5-hydroxymethylfurfural. Chinese Chemical Letters, 2022, 33, 385-389.	9.0	32
2567	Evaluation of 3-Allyl-5-vinylveratrole in Latex Copolymerization with an Acrylic Monomer from High Oleic Soybean Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 7003-7011.	6.7	4

#	Article	IF	Citations
2568	Life cycle and sustainability assessments of biorefineries producing glucaric acid, sorbitol or levulinic acid annexed to a sugar mill. Journal of Cleaner Production, 2021, 295, 126339.	9.3	16
2569	Polymers from Sugars and Cyclic Anhydrides: Ring-Opening Copolymerization of a <scp>d</scp>-Xylose Anhydrosugar Oxetane. Macromolecules, 2021, 54, 5094-5105.	4.8	19
2570	An Overall Reaction Integrated with Highly Selective Oxidation of 5â€Hydroxymethylfurfural and Efficient Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2102886.	14.9	71
2571	Application of real treated wastewater to starch production by microalgae: Potential effect of nutrients and microbial contamination. Biochemical Engineering Journal, 2021, 169, 107973.	3.6	14
2572	Photocatalytic Câ^'H activation and Câ^'C coupling of monohydric alcohols. Catalysis Communications, 2021, 153, 106300.	3.3	13
2574	Metabolic engineering of Escherichia coli for de novo production of 3-phenylpropanol via retrobiosynthesis approach. Microbial Cell Factories, 2021, 20, 121.	4.0	14
2575	Multifunctional Ce/ZrSi Catalyst Synergistically Converting 1,4-Pentanediol Derived from Levulinic Acids to Renewable Pentadiene. ACS Sustainable Chemistry and Engineering, 2021, 9, 8341-8346.	6.7	5
2576	Biosynthesis pathways and strategies for improving 3-hydroxypropionic acid production in bacteria. World Journal of Microbiology and Biotechnology, 2021, 37, 117.	3.6	21
2577	Conversion of levulinic acid to valuable chemicals: a review. Journal of Chemical Technology and Biotechnology, 2021, 96, 3009-3024.	3.2	29
2578	Consumer Preferences and Willingness to Pay for Potting Mix with Biochar. Energies, 2021, 14, 3432.	3.1	2
2579	Systematic Study of Aromaticâ€Ringâ€Targeted Cycloadditions of 5â€Hydroxymethylfurfural Platform Chemicals. ChemSusChem, 2021, 14, 3110-3123.	6.8	13
2580	Challenges in the production of second-generation organic acids (potential monomers for) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	5.7	14
2581	Synergistic effects of biomass building blocks on pyrolysis gas and bio-oil formation. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105100.	5.5	15
2582	Recent Advances on Dielsâ€Alderâ€Driven Preparation of Bioâ€Based Aromatics. ChemSusChem, 2021, 14, 3047-3053.	6.8	32
2583	Influence of Lewis acidity and CaCl2 on the direct transformation of glucose to 5-hydroxymethylfurfural. Molecular Catalysis, 2021, 510, 111685.	2.0	6
2584	Furan monomers and polymers from renewable plant biomass. Russian Chemical Reviews, 2021, 90, 750-784.	6.5	35
2585	A Semiâ€Batch Flow System for the Production of 5â€Chloromethylfurfural. Chemistry Methods, 2021, 1, 438-443.	3.8	3
2586	Catalytic coupling boosting efficient production of 5â€hydroxymethylfurfural from glucose. AICHE Journal, 2021, 67, e17345.	3.6	10

#	Article	IF	Citations
2587	Improving the sustainable performance of Biopolymers using nanotechnology. Polymer-Plastics Technology and Materials, 0, , 1-31.	1.3	3
2588	Hydrogenolysis of succinic acid over Ru and Pd catalysts encapsulated in porous silica nanoparticles. Clean Technologies and Environmental Policy, 2021, 23, 2171-2182.	4.1	2
2589	Current advances in microbial production of 1,3â€propanediol. Biofuels, Bioproducts and Biorefining, 2021, 15, 1566-1583.	3.7	32
2590	Direct Conversion of Alginate Oligoâ€•and Polysaccharides into Biodegradable and Nonâ€Ecotoxic Anionic Furanic Surfactantsâ€"An Experimental and Mechanistic Study. Advanced Sustainable Systems, 2021, 5, 2100108.	5.3	5
2591	A critical review on the development stage of biorefinery systems towards the management of apple processing-derived waste. Renewable and Sustainable Energy Reviews, 2021, 143, 110972.	16.4	68
2592	Basic silica catalysts for the efficient dehydration of biomass-derived compounds â€" Elucidating structure-activity relationships for Na2O/SiO2-type materials. Applied Catalysis B: Environmental, 2021, 286, 119933.	20.2	7
2593	Pressure Reduction Enhancing the Production of 5-Hydroxymethylfurfural from Glucose in Aqueous Phase Catalysis System. Polymers, 2021, 13, 2096.	4.5	4
2594	Catalyst derived from wastes for biofuel production: a critical review and patent landscape analysis. Applied Nanoscience (Switzerland), 2022, 12, 3677-3701.	3.1	25
2595	Natural magnolol derivatives as platform chemicals for bio-based phthalonitrile thermoset: Achieving high performances without an external curing agent. Polymer, 2021, 226, 123814.	3.8	20
2596	Metal Sulfide Photocatalysts for Lignocellulose Valorization. Advanced Materials, 2021, 33, e2007129.	21.0	106
2597	Cellobiulose as a Key Intermediate during Biomass Hydrothermal Conversion into Biofuels and Biochemicals: Fundamental Decomposition Mechanisms. Energy & Fuels, 2021, 35, 12200-12207.	5.1	2
2598	Recycling of bioplastic waste: A review. Advanced Industrial and Engineering Polymer Research, 2021, 4, 159-177.	4.7	50
2599	Batch fermentation of succinic acid from cheese whey by Actinobacillus succinogenes under variant medium composition. 3 Biotech, 2021, 11, 389.	2.2	9
2600	Mini-Review on the Synthesis of Furfural and Levulinic Acid from Lignocellulosic Biomass. Processes, 2021, 9, 1234.	2.8	24
2601	From Waste to Valueâ€"Direct Utilization of Î±-Angelica Lactone as a Nonconventional Irreversible Acylating Agent in a Chromatography-Free Lipase-Catalyzed KR Approach toward <i>sec</i>-Alcohols. ACS Sustainable Chemistry and Engineering, 2021, 9, 10276-10290.	6.7	4
2602	Enhanced Self-Assembly and Mechanical Properties of Cellulose-Based Triblock Copolymers: Comparisons with Amylose-Based Triblock Copolymers. ACS Sustainable Chemistry and Engineering, 2021, 9, 9779-9788.	6.7	8
2603	Effect of molecular structure of cation and anions of ionic liquids and co-solvents on selectivity of 5-hydroxymethylfurfural from sugars, cellulose and real biomass. Journal of Molecular Liquids, 2021, 334, 116523.	4.9	19
2604	Catalytic Biomass Upgrading Exploiting Liquid Organic Hydrogen Carriers (LOHCs). ACS Sustainable Chemistry and Engineering, 2021, 9, 9604-9624.	6.7	19

#	Article	IF	Citations
2605	Acid Hydrotropic Fractionation of Lignocelluloses for Sustainable Biorefinery: Advantages, Opportunities, and Research Needs. ChemSusChem, 2021, 14, 3031-3046.	6.8	46
2606	Recyclable Ir Nanoparticles for the Catalytic Hydrogenation of Biomass-Derived Carbonyl Compounds. Catalysts, 2021, 11, 914.	3.5	2
2607	Acetate as a potential feedstock for the production of value-added chemicals: Metabolism and applications. Biotechnology Advances, 2021, 49, 107736.	11.7	59
2608	Sulfamic Acid as Versatile Green Catalyst Used For Synthetic Organic Chemistry: A Comprehensive Update. ChemistrySelect, 2021, 6, 6867-6889.	1.5	9
2609	Photoredox Catalytic Phosphiteâ€Mediated Deoxygenation of Î±â€Diketones Enables Wolff Rearrangement and Staudinger Synthesis of Î²â€Lactams. Angewandte Chemie, 2021, 133, 19848-19852.	2.0	2
2610	Hydrogenation of Sugars to Sugar Alcohols in the Presence of a Recyclable Ru/Al₂O₃ Catalyst Commercially Available. ACS Sustainable Chemistry and Engineering, 2021, 9, 9240-9247.	6.7	26
2611	Efficient Synthesis of Sugar Alcohols over a Synergistic and Sustainable Catalyst. Chinese Journal of Chemistry, 2021, 39, 2467-2476.	4.9	8
2612	Catalytic Transformation of the Furfural Platform into Bifunctionalized Monomers for Polymer Synthesis. ACS Catalysis, 2021, 11, 10058-10083.	11.2	60
2613	Photoredox Catalytic Phosphiteâ€Mediated Deoxygenation of Î±â€Diketones Enables Wolff Rearrangement and Staudinger Synthesis of Î²â€Lactams. Angewandte Chemie - International Edition, 2021, 60, 19696-19700.	13.8	19
2614	Catalytic conversion of GVL to biofuels using Cu and Pt catalysts over microwave-synthesized FAU zeolite. Catalysis Today, 2022, 392-393, 105-115.	4.4	4
2615	Enzymatic Synthesis of Polyesters and Their Bioapplications: Recent Advances and Perspectives. Macromolecular Bioscience, 2021, 21, e2100156.	4.1	29
2616	Efficient Preparation of Methyl 2â€Oxoâ€3â€aryl (heteroaryl)â€2 H â€pyranâ€5â€carboxylate via Pdâ€Catalyzed Negishi Coupling. European Journal of Organic Chemistry, 2021, 2021, 4308-4313.	2.4	2
2617	Selective hydrogenation of furfural to furfuryl alcohol catalysed by ruthenium complexes containing phosphorusâ€nitrogen ligands. Applied Organometallic Chemistry, 2021, 35, e6382.	3.5	9
2618	Disclosing the Role of Gold on Palladium â€“ Gold Alloyed Supported Catalysts in Formic Acid Decomposition. ChemCatChem, 2021, 13, 4210-4222.	3.7	16
2619	Conversion of bioplatform molecule, succinic acid to value-added products via esterification over 12-tungstosilicic acid anchored to MCM-22. Biomass and Bioenergy, 2021, 151, 106178.	5.7	8
2620	Optimization of Reactive Diluent for Bio-Based Unsaturated Polyester Resin: A Rheological and Thermomechanical Study. Polymers, 2021, 13, 2667.	4.5	10
2621	Sustainable transformation of natural silica-rich solid and waste to hierarchical zeolites for sugar conversion to hydroxymethylfurfural (HMF). Microporous and Mesoporous Materials, 2021, 323, 111252.	4.4	12
2622	DFT and Microkinetic Comparison of Ru-Doped Porphyrin-like Graphene and Nanotubes toward Catalytic Formic Acid Decomposition and Formation. Journal of Physical Chemistry C, 2021, 125, 18673-18683.	3.1	4

#	Article	IF	Citations
2623	Ammonia Etching to Generate Oxygen Vacancies on CuMn₂O₄ for Highly Efficient Electrocatalytic Oxidation of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2021, 9, 11790-11797.	6.7	26
2624	Selective transfer hydrogenation of biomass derived furanic molecules using cyclohexanol as a hydrogen donor over nanostructured Cu/MgO catalyst. Molecular Catalysis, 2021, 513, 111812.	2.0	8
2625	An Experimental and Modeling Study on the Pretreatment and Alkaline Hydrolysis of Blue Agave Bagasse in Twin-Screw Extruders. Industrial & Engineering Chemistry Research, 2021, 60, 12449-12460.	3.7	8
2626	Methanesulfonic acid-mediated conversion of microalgae Scenedesmus obliquus biomass into levulinic acid. Journal of Industrial and Engineering Chemistry, 2021, 104, 85-85.	5.8	2
2627	Experimental and kinetic modeling studies of furfural pyrolysis at low and atmospheric pressures. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105161.	5.5	11
2628	Toward scalable biocatalytic conversion of 5-hydroxymethylfurfural by galactose oxidase using coordinated reaction and enzyme engineering. Nature Communications, 2021, 12, 4946.	12.8	56
2629	Highly selective glucose isomerization by HY zeolite in gamma-butyrolactone/H2O system over fixed bed reactor. Catalysis Communications, 2021, 156, 106324.	3.3	8
2630	Catalysts developed from waste plastics: a versatile system for biomass conversion. Materials Today Chemistry, 2021, 21, 100524.	3.5	13
2631	Measurement and PC-SAFT modeling of the water activity for aqueous solutions of D-mannose in some deep eutectic solvents. Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 58-68.	5.3	0
2632	Isomerization and Epimerization of Glucose Catalyzed by Sn-Containing Mesoporous Silica. Industrial & Engineering Chemistry Research, 2021, 60, 12821-12833.	3.7	5
2633	Identifying Energy Extraction Optimisation Strategies of Actinobacillus succinogenes. Catalysts, 2021, 11, 1016.	3.5	3
2634	Synthesis, Properties, and Applications of Bio-Based Cyclic Aliphatic Polyesters. Biomacromolecules, 2021, 22, 3649-3667.	5.4	27
2635	Stateâ€ofâ€theâ€Art of the Synthesis and Applications of Sulfonated Carbonâ€Based Catalysts for Biodiesel Production: a Review. Energy Technology, 2021, 9, 2100303.	3.8	16
2636	Recent Advances in the Photocatalytic Conversion of Biomass-Derived Furanic Compounds. ACS Catalysis, 2021, 11, 11336-11359.	11.2	81
2637	Analysis of the Amorphous and Interphase Influence of Comononomer Loading on Polymer Properties toward Forwarding Bioadvantaged Copolyamides. Macromolecules, 2021, 54, 7910-7924.	4.8	11
2638	Production of ethyl lactate by activated carbon-supported Sn and Zn oxide catalysts utilizing lignocellulosic side streams. Applied Catalysis A: General, 2021, 624, 118327.	4.3	7
2639	Advances in Understanding the Selective Hydrogenolysis of Biomass Derivatives. ACS Catalysis, 2021, 11, 11193-11232.	11.2	43
2640	Bioproduction of <scp>l</scp>- and <scp>d</scp>-lactic acids: advances and trends in microbial strain application and engineering. Critical Reviews in Biotechnology, 2022, 42, 342-360.	9.0	17

#	Article	IF	Citations
2641	Tunable polylactide plasticizer design: Rigid stereoisomers. European Polymer Journal, 2021, 157, 110649.	5.4	14
2642	Catalytic Reductive Alcohol Etherifications with Carbonylâ€Based Compounds or CO₂ and Related Transformations for the Synthesis of Ether Derivatives. ChemSusChem, 2021, 14, 3744-3784.	6.8	18
2643	Technological Innovations in Photochemistry for Organic Synthesis: Flow Chemistry, High-Throughput Experimentation, Scale-up, and Photoelectrochemistry. Chemical Reviews, 2022, 122, 2752-2906.	47.7	330
2644	Recovery of Nitrogen from Low-Cost Plant Feedstocks Used for Bioenergy: A Review of Availability and Process Order. Energy & Fuels, 2021, 35, 14361-14381.	5.1	1
2645	Efficient 3-hydroxypropionic acid production by Acetobacter sp. CIP 58.66 through a feeding strategy based on pH control. AMB Express, 2021, 11, 130.	3.0	1
2646	Synthesis of Highly Near-Infrared Fluorescent Graphene Quantum Dots Using Biomass-Derived Materials for <i>In Vitro</i> Cell Imaging and Metal Ion Detection. ACS Applied Materials & Interfaces, 2021, 13, 43952-43962.	8.0	34
2647	Catalytic conversion of cellulose and starch to furfural over zeolites. Journal of Fuel Chemistry and Technology, 2021, 49, 1261-1269.	2.0	4
2648	Reactive Chromatography Applied to Ethyl Levulinate Synthesis: A Proof of Concept. Processes, 2021, 9, 1684.	2.8	4
2649	Central Composite Design Approach for Optimization of Levulinic Acid Separation by Reactive Components. Industrial & Engineering Chemistry Research, 2021, 60, 13692-13700.	3.7	12
2650	Biomaterials Printing for Sustainability. Springer Tracts in Additive Manufacturing, 2022, , 15-28.	0.8	1
2651	The fabrication of <scp>BaTiO₃</scp> supported <scp>AuPd</scp> nanoparticles for selective oxidation of 1,2â€propanediol to lactic acid. Journal of Chemical Technology and Biotechnology, 2022, 97, 179-188.	3.2	2
2652	Bioenergy emerging paradigm: Collaborative networks and determinants in the upgrading process of technological frontiers. African Journal of Science, Technology, Innovation and Development, 0, , 1-16.	1.6	0
2653	Polyvinyl sulfonated catalyst and the effect of sulfonic sites on the dehydration of carbohydrates. Chemical Engineering Journal, 2021, 419, 129573.	12.7	7
2654	Hydrolysis of semiâ€industrial aqueous extracted xylan from birch (<scp><i>Betula pendula</i></scp>) employing commercial catalysts: kinetics and modelling. Journal of Chemical Technology and Biotechnology, 2022, 97, 130-139.	3.2	6
2655	Sustainable Exploitation of Residual Cynara cardunculus L. to Levulinic Acid and n-Butyl Levulinate. Catalysts, 2021, 11, 1082.	3.5	11
2656	Invited review on â€˜maize in the 21st centuryâ€™ Emerging trends of maize biorefineries in the 21st century: scientific and technological advancements in biofuel and bio-sustainable market. Journal of Cereal Science, 2021, 101, 103272.	3.7	4
2657	Alkylation of monomeric, dimeric, and polymeric lignin models through carbon-hydrogen activation using Ru-catalyzed Murai reaction. Tetrahedron, 2021, 100, 132475.	1.9	1
2659	New bio-based sustainable polymers and polymer composites based on methacrylate derivatives of furfural, solketal and lactic acid. Materials Today Communications, 2021, 28, 102721.	1.9	7

#	Article	IF	Citations
2660	Reaction Kinetics of Levulinic Acid Synthesis from Glucose Using Bronsted Acid Catalyst. Bulletin of Chemical Reaction Engineering and Catalysis, 2021, 16, 904-915.	1.1	5
2661	Monitoring Aqueous Phase Reactions by Operando ATRâ€IR Spectroscopy at High Temperature and Pressure: A Biomass Conversion Showcase. Chemistry Methods, 0, , .	3.8	1
2662	Monitoring Aqueous Phase Reactions by Operando ATRâ€IR Spectroscopy at High Temperature and Pressure: A Biomass Conversion Showcase. Chemistry Methods, 2021, 1, 452.	3.8	0
2663	Toward efficient single-atom catalysts for renewable fuels and chemicals production from biomass and CO2. Applied Catalysis B: Environmental, 2021, 292, 120162.	20.2	114
2664	Kinetics of phosphotungstic acid-catalyzed condensation of levulinic acid with phenol to diphenolic acid: Temperature-controlled regioselectivity. Molecular Catalysis, 2021, 514, 111848.	2.0	4
2665	Extraction and purification of 2-hydroxymuconic semialdehyde accumulated in phenol degradation by Pseudomonas stutzeri N2. Chemical Engineering Journal, 2021, 419, 129444.	12.7	4
2666	Influence of Reaction Conditions on Hydrothermal Carbonization of Fructose. ChemSusChem, 2021, 14, 5271-5282.	6.8	19
2667	Bio-based polymers with performance-advantaged properties. Nature Reviews Materials, 2022, 7, 83-103.	48.7	268
2668	Conversion of levulinic acid over Ag substituted LaCoO3 perovskite. Fuel, 2021, 301, 121071.	6.4	20
2669	Efficient conversion of corn stover to 5-hydroxymethylfurfural and furfural using a novel acidic resin catalyst in water-1, 4-dioxane system. Molecular Catalysis, 2021, 515, 111920.	2.0	8
2670	Cascade conversion of glucose to 5-hydroxymethylfurfural over BrÃ¸nstedâ€“Lewis bi-acidic SiO2â€“ZrO2 catalysts. Biomass Conversion and Biorefinery, 0, , 1.	4.6	0
2671	Direct production of 2, 5-Furandicarboxylicacid from raw biomass by manganese dioxide catalysis cooperated with ultrasonic-assisted diluted acid pretreatment. Bioresource Technology, 2021, 337, 125421.	9.6	18
2672	Conversion of chitin biomass into 5-hydroxymethylfurfural: A review. Renewable and Sustainable Energy Reviews, 2021, 150, 111452.	16.4	32
2673	Performance optimization of diamine cross-linked mixed matrix membrane for high value organic acid recovery. Journal of Membrane Science, 2021, 635, 119543.	8.2	1
2674	Multi-feedstock lignocellulosic biorefineries based on biological processes: An overview. Industrial Crops and Products, 2021, 172, 114062.	5.2	20
2675	Polymerization of sugars/furan model compounds and bio-oil during the acid-catalyzed conversion â€“ A review. Fuel Processing Technology, 2021, 222, 106958.	7.2	12
2676	Macroalgal biorefinery concepts for the circular bioeconomy: A review on biotechnological developments and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 151, 111553.	16.4	58
2677	Biofuels and biorefineries: Development, application and future perspectives emphasizing the environmental and economic aspects. Journal of Environmental Management, 2021, 297, 113268.	7.8	66

#	Article	IF	Citations
2678	One flow through hydrolysis and hydrogenation of semi-industrial xylan from birch (betula pendula) in a continuous reactorâ€"Kinetics and modelling. Chemical Engineering and Processing: Process Intensification, 2021, 169, 108614.	3.6	6
2679	Mechanistic investigations in sonoenzymatic synthesis of n-butyl levulinate. Process Biochemistry, 2021, 111, 147-158.	3.7	11
2680	Recent advances in paired electrolysis of biomass-derived compounds towardÂcogeneration of value-added chemicals and fuels. Current Opinion in Electrochemistry, 2021, 30, 100795.	4.8	19
2681	Catalytic dehydration of fructose into 5-hydroxymethylfurfural by propyl sulfonic acid functionalized magnetic graphene oxide nanocomposite. Renewable Energy, 2021, 180, 132-139.	8.9	43
2682	Updates on high value products from cellulosic biorefinery. Fuel, 2022, 308, 122056.	6.4	44
2683	Enhancing pyrolysis gas and bio-oil formation through transition metals as in situ catalysts. Fuel, 2022, 308, 121900.	6.4	13
2684	Renewable carbon opportunities in the production of succinic acid applying attributional and consequential modelling. Chemical Engineering Journal, 2022, 428, 132011.	12.7	13
2685	Cr-Mn bimetallic functionalized USY zeolite monolithic catalyst for direct production of 2, 5-Furandicarboxylic acid from raw biomass. Chemical Engineering Journal, 2022, 429, 132173.	12.7	18
2686	A review of bio-refining process intensification in catalytic conversion reactions, separations and purifications of hydroxymethylfurfural (HMF) and furfural. Chemical Engineering Journal, 2022, 429, 132325.	12.7	127
2687	Catalytic transfer hydrogenation of furfural to furfuryl alcohol using easy-to-separate coreâ€"shell magnetic zirconium hydroxide. New Journal of Chemistry, 2021, 45, 2715-2722.	2.8	15
2688	Investigation of the catalytic activity and reaction kinetic modeling of two antimony catalysts in the synthesis of poly(ethylene furanoate). Green Chemistry, 2021, 23, 2507-2524.	9.0	24
2689	Nanostructured Heterogeneous Catalysts for Biomass Conversion in Green Solvents. , 2021, , 1041-1064.		0
2690	Behavior characterization of lignosulfonate depolymerization products under acid-catalyzed conditions using gas chromatographyâ€"mass spectrometry. Chromatographia, 2021, 84, 109-116.	1.3	2
2691	Synthesis and melt-spinning of partly bio-based thermoplastic poly(cycloacetal-urethane)s toward sustainable textiles. Polymer Chemistry, 2021, 12, 4942-4953.	3.9	9
2692	Preparation of Sulfur-Modulated Nickel/Carbon Composites from Lignosulfonate for the Electrocatalytic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. ACS Applied Energy Materials, 2021, 4, 1182-1188.	5.1	37
2693	Recent advances in the electrocatalytic synthesis of 2,5-furandicarboxylic acid from 5-(hydroxymethyl)furfural. Journal of Materials Chemistry A, 2021, 9, 20164-20183.	10.3	62
2694	Direct Reductive Amination of Biobased Furans to <i>N</i>â€Substituted Furfurylamines by Engineered Reductive Aminase. Advanced Synthesis and Catalysis, 2021, 363, 1033-1037.	4.3	18
2695	Ozonolysis of Î±-angelica lactone: a renewable route to malonates. Chemical Communications, 2021, 57, 10524-10527.	4.1	2

#	Article	IF	Citations
2696	Development of catalysts for the hydrogenation of levulinic acid to gamma-valerolactone in the framework of the problem of cellulose conversion into valuable chemicals. Journal of Physics: Conference Series, 2021, 1749, 012008.	0.4	0
2697	Escherichia coli, the workhorse cell factory for the production of chemicals. , 2021, , 115-137.		3
2698	Acid-catalyzed fractionation of almond shells in Î³-valerolactone/water. Biomass Conversion and Biorefinery, 2023, 13, 2729-2743.	4.6	2
2699	Thermal decomposition and isomerization of furfural and 2-pyrone: a theoretical kinetic study. Physical Chemistry Chemical Physics, 2021, 23, 2046-2054.	2.8	7
2701	A sustainable approach to cathode delamination using a green solvent. RSC Advances, 2021, 11, 27356-27368.	3.6	22
2702	Cobalt Porphyrazine Supported on SnO₂ with Oxygen Vacancies for Boosting Photocatalytic Aerobic Oxidation of Glucose to Organic Acids in an Aqueous Medium. ACS Sustainable Chemistry and Engineering, 2021, 9, 2057-2066.	6.7	11
2703	Electrochemical hydrogenation of bioprivileged<i>cis</i>,<i>cis</i>-muconic acid to<i>trans</i>-3-hexenedioic acid: from lab synthesis to bench-scale production and beyond. Green Chemistry, 2021, 23, 6456-6468.	9.0	15
2704	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of <scp>d</scp>-glucose to <scp>d</scp>-sorbitol. Green Chemistry, 2021, 23, 2010-2016.	9.0	34
2705	Synthesis of 1,10-decanediol diacetate and 1-decanol acetate from furfural. Green Chemistry, 2021, 23, 2169-2176.	9.0	4
2706	Exploration of benign deep eutectic solventâ€“water systems for the highly efficient production of furfurylamine from sugarcane bagasse <i>via</i> chemoenzymatic cascade catalysis. Green Chemistry, 2021, 23, 8154-8168.	9.0	50
2707	Matsudaâ€“Heck arylation of itaconates: a versatile approach to heterocycles from a renewable resource. Organic and Biomolecular Chemistry, 2021, 19, 4292-4302.	2.8	4
2709	Highâ€level production of <scp>d</scp> â€pantothenic acid from glucose by fedâ€batch cultivation of <i>Escherichia coli</i>. Biotechnology and Applied Biochemistry, 2020, , .	3.1	10
2710	Cascade Reductive Etherification of Bioderived Aldehydes over Zrâ€Based Catalysts. ChemSusChem, 2017, 10, 4090-4101.	6.8	52
2711	Oxidation Catalysts green oxidation catalyst for Green Chemistry green chemistry. , 2012, , 7585-7618.		3
2712	Carbohydrate-Based Amphiphiles: Resource for Bio-based Surfactants. , 2018, , 1-35.		2
2713	Production of Hemicellulases, Xylitol, and Furan from Hemicellulosic Hydrolysates Using Hydrothermal Pretreatment. , 2017, , 285-315.		5
2714	Production of Organic Acids by Yeasts and Filamentous Fungi. , 2017, , 205-223.		15
2715	Saccharide Biomass for Biofuels, Biomaterials, and Chemicals. , 2018, , 11-30.		1

#	Article	IF	Citations
2716	Starch Biomass for Biofuels, Biomaterials, and Chemicals. , 2018, , 69-94.		8
2717	The Biotechnological Potential of Corynebacterium glutamicum, from Umami to Chemurgy. Microbiology Monographs, 2013, , 1-49.	0.6	6
2718	Bio-based Hydrocarbon Polymers. , 2015, , 1-10.		1
2719	Strategies for Hydrogen Storage in Porous Organic Polymers. , 2017, , 203-223.		2
2720	The Use of Biomass for the Production of Fuel and Chemicals. , 2020, , 77-103.		1
2721	Production of Fumaric Acid by Fermentation. Sub-Cellular Biochemistry, 2012, 64, 225-240.	2.4	20
2722	Platform Chemicals from Biomass Using Microwave Irradiation. Biofuels and Biorefineries, 2015, , 129-144.	0.5	5
2723	Production of Diols from Biomass. Biofuels and Biorefineries, 2017, , 343-373.	0.5	4
2724	Production of Sorbitol from Biomass. Biofuels and Biorefineries, 2017, , 265-309.	0.5	12
2725	Significance of Process Parameters on Fungal Cellulase Production. Clean Energy Production Technologies, 2020, , 299-324.	0.5	1
2726	Application of Hydrolytic Enzymes in Biorefinery and Its Future Prospects. Clean Energy Production Technologies, 2020, , 59-83.	0.5	18
2727	Techno-Economic Assessment of Biomass-Based Integrated Biorefinery for Energy and Value-Added Product. Clean Energy Production Technologies, 2020, , 581-616.	0.5	8
2728	Lignin degradation and nutrient cycling by white rot fungi under the influence of pesticides. 3 Biotech, 2020, 10, 266.	2.2	3
2729	Biomass Pretreatment, Biorefineries, and Potential Products for a Bioeconomy Development. , 2016, , 1-22.		35
2730	Low temperature transformation of lignocellulose derived bioinspired molecules to aviation fuel precursor over magnesiumâ€"lanthanum mixed oxide catalyst. Applied Catalysis B: Environmental, 2020, 276, 119069.	20.2	31
2731	Intensification of steam explosion and structural intricacies impacting sugar recovery. Bioresource Technology, 2017, 241, 692-700.	9.6	16
2732	Bioaldehydes and beyond: Expanding the realm of bioderived chemicals using biogenic aldehydes as platforms. Current Opinion in Chemical Biology, 2020, 59, 37-46.	6.1	10
2733	Selectivity enhancement in the g-C3N4-catalyzed conversion of glucose to gluconic acid and glucaric acid by modification of cobalt thioporphyrazine. Journal of Catalysis, 2020, 388, 11-19.	6.2	34

#	Article	IF	Citations
2734	Ru/CeO2 catalyst with optimized CeO2 morphology and surface facet for efficient hydrogenation of ethyl levulinate to Î³-valerolactone. Journal of Catalysis, 2020, 389, 60-70.	6.2	52
2735	Catalytic conversion of levulinic acid under noncorrosive conditions using Ru/Zr/Al-SBA-15 catalysts. Microporous and Mesoporous Materials, 2020, 305, 110298.	4.4	21
2736	Valorisation of solid biowastes: The lactic acid alternative. Process Biochemistry, 2020, 99, 222-235.	3.7	28
2737	Supercritical reactors for the production of advanced bio-fuels: A review. Journal of Supercritical Fluids, 2018, 134, 106-113.	3.2	8
2738	Liquid-Phase Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid over Co/Mn/Br Catalyst. Industrial & Engineering Chemistry Research, 2020, 59, 17076-17084.	3.7	25
2739	Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo₂O₄ Spinel Oxide Nanostructure Catalysts. ACS Catalysis, 2020, 10, 6741-6752.	11.2	221
2740	Renewable Cyclobutane-1,3-dicarboxylic Acid (CBDA) Building Block Synthesized from Furfural via Photocyclization. ACS Sustainable Chemistry and Engineering, 2020, 8, 8909-8917.	6.7	22
2741	Green Solvent Selection Guide for Biobased Organic Acid Recovery. ACS Sustainable Chemistry and Engineering, 2020, 8, 8958-8969.	6.7	48
2742	Continuous-Flow Production of Isosorbide from Aqueous-Cellulosic Derivable Feed over Sustainable Heterogeneous Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 927-935.	6.7	23
2744	Chapter 2. Aqueous-phase Reforming of Sugar Derivatives: Challenges and Opportunities. RSC Green Chemistry, 0, , 54-88.	0.1	1
2745	Chapter 7. Non-fuel Applications of Sugars in Brazil. RSC Green Chemistry, 0, , 228-257.	0.1	2
2746	Renewable Solvents and Other â€˜Greenâ€™ VOCs. RSC Green Chemistry, 2013, , 149-174.	0.1	3
2747	Sustainable 2,5-furandicarboxylic synthesis by a direct 5-hydroxymethylfurfural fuel cell based on a bifunctional PtNiS_x catalyst. Chemical Communications, 2020, 56, 13611-13614.	4.1	15
2748	Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural. Chemical Society Reviews, 2020, 49, 4273-4306.	38.1	559
2749	A designed and potentially decadentate ligand for use in lanthanide(<scp>iii</scp>) catalysed biomass transformations: targeting diastereoselective<i>trans</i>-4,5-diaminocyclopentenone derivatives. Dalton Transactions, 2020, 49, 2331-2336.	3.3	10
2750	Rapid mechanoenzymatic saccharification of lignocellulosic biomass without bulk water or chemical pre-treatment. Green Chemistry, 2020, 22, 3877-3884.	9.0	21
2751	Levulinic acid: a sustainable platform chemical for novel polymer architectures. Polymer Chemistry, 2020, 11, 4068-4077.	3.9	71
2752	Levulinic acid production from wood with green solvents. Journal of Wood Chemistry and Technology, 2020, 41, 58-64.	1.7	3

#	Article	IF	Citations
2753	Recent advances in extraction of antioxidants from plant by-products processing industries. Food Quality and Safety, 2017, 1, 61-81.	1.8	26
2755	Metabolic engineering of. Microbial Cell Factories, 2014, 13, 104.	4.0	19
2756	Metabolic engineering of a fast-growing cyanobacterium Synechococcus elongatus PCC 11801 for photoautotrophic production of succinic acid. Biotechnology for Biofuels, 2020, 13, 89.	6.2	31
2757	The Highly Selective and Near-Quantitative Conversion of Glucose to 5-Hydroxymethylfurfural Using Ionic Liquids. PLoS ONE, 2016, 11, e0163835.	2.5	34
2758	Production of Furfural and its Application in Biorefinery. Applied Chemistry for Engineering, 2016, 27, 10-15.	0.2	1
2761	Furan-type Compounds from Carbohydrates via Heterogeneous Catalysis. Current Organic Chemistry, 2014, 18, 547-597.	1.6	49
2762	Isomaltulose Oxidation and Dehydration Products as Starting Materials Towards Fine Chemicals. Current Organic Chemistry, 2014, 18, 1768-1787.	1.6	8
2763	Alcohol-mediated Reduction of Biomass-derived Furanic Aldehydes via Catalytic Hydrogen Transfer. Current Organic Chemistry, 2019, 23, 2168-2179.	1.6	7
2764	Catalytic Hydrogenolysis of Biomass-derived Polyhydric Compounds to C2â€“C3 Small- Molecule Polyols: A Review. Current Organic Chemistry, 2019, 23, 2180-2189.	1.6	4
2765	Bioethanol Transformations Over Active Surface Sites Generated on Carbon Nanotubes or Carbon Nanofibers Materials. Open Catalysis Journal, 2014, 7, 1-7.	0.9	8
2766	Core-Magnetic Composites Catalysts for the Valorization and Up-grading of the Renewable Feedstocks: A Minireview. Current Catalysis, 2019, 8, 2-19.	0.5	1
2767	Biorefineries â€“ New Green Strategy For Development Of Smart And Innovative Industry. Management Systems in Production Engineering, 2016, 23, 150-155.	1.1	4
2769	Contribution to the production and use of biomass-derived solvents â€“ a review. Acta Innovations, 2020, , 29-56.	1.0	21
2770	DIELS-ALDER REACTION OF FURFURYL GLYCIDYL ETHER/CARBON DIOXIDE COPOLYMER. Acta Polymerica Sinica, 2011, 011, 1336-1340.	0.0	3
2771	A Review on the conversion of levulinic acid and its esters to various useful chemicals. AIMS Energy, 2019, 7, 165-185.	1.9	54
2772	Industrial production, application, microbial biosynthesis and degradation of furanic compound, hydroxymethylfurfural (HMF). AIMS Microbiology, 2018, 4, 261-273.	2.2	33
2773	Cell Wall Degrading Enzymes in Trichoderma asperellum Grown on Wheat Bran. Fungal Genomics & Biology, 2014, 04, .	0.4	5
2774	Recent Strategies for the Development of Biosourced-Monomers, Oligomers and Polymers-Based Materials: A Review with an Innovation and a Bigger Data Focus. Journal of Biomaterials and Nanobiotechnology, 2016, 07, 167-213.	0.5	15

#	Article	IF	Citations
2775	Paving the High-Way to Sustainable, Value Adding Open-Innovation Integrating Bigger-Data Challenges: Three Examples from Bio-Ingredients to Robust Durable Applications of Electrochemical Impacts. Journal of Biomaterials and Nanobiotechnology, 2018, 09, 117-188.	0.5	2
2776	Scientific specialties in Green Chemistry. Iberoamerican Journal of Science Measurement and Communication, 2020, 1, 005.	0.6	4
2777	Cascade Approach to the Synthesis of Useful Compounds Using Various Natural Carbon Resources. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2016, 74, 975-983.	0.1	3
2778	SERINOL DERIVATIVES FOR THE SUSTAINABLE VULCANIZATION OF DIENE ELASTOMERS. Rubber Chemistry and Technology, 2018, 91, 701-718.	1.2	4
2779	Production and Optimization of Cellulase from Penicillium sp. Using Corn-cob and Pawpaw Fibre as Substrates. Journal of Advances in Microbiology, 2018, 8, 1-10.	0.2	8
2780	An IMDAF approach to annellated 1,4:5,8-diepoxynaphthalenes and their metathesis reaction leading to novel scaffolds displaying an antiproliferative activity toward cancer cells. New Journal of Chemistry, 2021, 45, 19497-19505.	2.8	4
2781	Biocascading: Platform Molecules, Value Added Chemicals, and Bioactives. , 2021, , 169-229.		1
2782	Biobased Polymers from Food Waste Feedstock and Their Synthesis. , 2021, , 231-285.		0
2783	Enhancing the activity of gold supported catalysts by oxide coating: towards efficient oxidations. Green Chemistry, 2021, 23, 8453-8457.	9.0	19
2784	Hydrogenolysis of Glycerol to 1,3â€Propanediol: Are Spatial and Electronic Configuration of â€œMetalâ€Solid Acidâ€•Interface Key for Active and Durable Catalysts?. ChemCatChem, 2022, 14, .	3.7	15
2785	Insights on the Advancements of In Silico Metabolic Studies of Succinic Acid Producing Microorganisms: A Review with Emphasis on Actinobacillus succinogenes. Fermentation, 2021, 7, 220.	3.0	4
2786	Selective production of Î³-valerolactone and ethyl valerate from ethyl levulinate using unsupported nickel phosphide. Applied Catalysis A: General, 2021, 628, 118401.	4.3	4
2787	Recent Advances and Challenges in Photoreforming of Biomassâ€Derived Feedstocks into Hydrogen, Biofuels, or Chemicals by Using Functional Carbon Nitride Photocatalysts. ChemSusChem, 2021, 14, 4903-4922.	6.8	35
2788	Hierarchical Porous MIL-101(Cr) Solid Acid-Catalyzed Production of Value-Added Acetals from Biomass-Derived Furfural. Polymers, 2021, 13, 3498.	4.5	6
2789	Review on Microstructural and Ionâ€conductivity Properties of Biodegradable Starchâ€Based Solid Polymer Electrolyte Membranes. Starch/Staerke, 2022, 74, .	2.1	4
2790	The challenges and prospects of Escherichia coli as an organic acid production host under acid stress. Applied Microbiology and Biotechnology, 2021, 105, 8091-8107.	3.6	12
2791	Tailoring Competitive Adsorption Sites by Oxygenâ€Vacancy on Cobalt Oxides to Enhance the Electrooxidation of Biomass. Advanced Materials, 2022, 34, e2107185.	21.0	162
2792	Voltage cycling process for the electroconversion of biomass-derived polyols. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14

#	Article	IF	Citations
2793	One-pot synthesis of pyrrolidone derivatives via reductive amination of levulinic acid/ester with nitriles over Pd/C catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2021, 134, 777-792.	1.7	4
2794	Hydrogenation of Levulinic Acid to Î³-Valerolactone via Green Microwave-Assisted Reactions Either in Continuous Flow or Solvent-Free Batch Processes. Industrial & Engineering Chemistry Research, 2021, 60, 16756-16768.	3.7	9
2795	Biohydrogen production by glycerol Aqueous-Phase Reforming: Effect of promoters (Ce or Mg) in the NiAl2O4 spinel-derived catalysts. Journal of Environmental Chemical Engineering, 2021, 9, 106433.	6.7	7
2797	Assessment of Economic and Environmental Cost-benefits of Developed Biorefinery Schemes. RSC Green Chemistry, 2011, , 203-279.	0.1	1
2798	Valorisation of Food Waste in Hong Kong for the Sustainable Production of Chemicals and Materials. Journal of Food Processing & Technology, 2012, 03, .	0.2	0
2799	Food Waste and Catering Waste; Focus on Valorisation of Used Cooking Oil and Recovered Triglycerides. RSC Green Chemistry, 2013, , 130-184.	0.1	0
2800	Biomass to Liquid Biofuels via Heterogeneous Catalysis. , 2014, , 226-265.		0
2802	Hydroxyacetone oxidation with hydrogen peroxide over acid catalysts. Himia, Fizika Ta Tehnologia Poverhni, 2015, 6, 498-503.	0.9	1
2803	Synthesis of propylene glycol acetacetal over solid acid catalysts. Himia, Fizika Ta Tehnologia Poverhni, 2015, 6, 520-526.	0.9	1
2804	Toward Fermentative Production of Succinic Acid, Adipic Acid, and Caprolactam: An Industrial Perspective. Green Chemistry and Sustainable Technology, 2016, , 35-60.	0.7	0
2805	Green Chemistry and Sustainability. Green Chemistry and Sustainable Technology, 2016, , 1-16.	0.7	0
2806	Investigation of Furfural Yields of Liquid Hydrolyzate during Dilute Acid Pretreatment Process on Quercus Mongolica using Response Surface Methodology. Journal of the Korean Wood Science and Technology, 2016, 44, 85-95.	3.0	3
2807	Production of Biofuels and Biochemicals by Biorefinery. Transactions of the Korean Hydrogen and New Energy Society, 2016, 27, 702-711.	0.6	2
2808	One-pot synthesis of Î´-valerolactone from tetrahydrofurfuryl alcohol and Î´-valerolactone amidation over Đ¡u/ZnO-Al2O3 catalyst. Himia, Fizika Ta Tehnologia Poverhni, 2016, 7, 395-404.	0.9	1
2809	Die Nutzung von Biomasse zur Herstellung von Treibstoff und Chemikalien. , 2017, , 77-104.		0
2810	Development of Non-Stirred Pressure Reactor for the Production of Levulinic Acid. International Journal of Applied Chemistry, 2017, 4, 10-12.	0.4	0
2811	The Biorefinery Approach. , 2018, , 1-30.		2
2813	Interaction of lactic acid and ethyllactate with aldehydes. Catalysis and Petrochemistry, 2019, 28, 38-43.	0.3	0

#	Article	IF	Citations
2814	Carbohydrate-Based Amphiphiles: Resource for Bio-based Surfactants. , 2019, , 349-383.		8
2815	Towards the Valorization of Biomass to 5-Hydroxymethylfurfural: A Promising Biochemical and Biofuel Feedstock. Kimika, 2019, 30, 4-12.	0.4	0
2816	Bio-catalysis as a Green Approach for Industrial Waste Treatment. Nanotechnology in the Life Sciences, 2020, , 359-405.	0.6	3
2817	Strategies of Treatment. , 2020, , 67-97.		0
2818	Sweet Chemistry - - and. , 2020, , 113-141.		0
2819	Energy and Material Flows and Carbon Footprint Assessment Concerning the Production of HMF and Furfural from a Cellulosic Biomass. Processes, 2020, 8, 119.	2.8	18
2820	Succinic Acid Production as Secondary Metabolite from Bacillus megaterium ELI24. Natural Products Journal, 2020, 10, 153-157.	0.3	5
2821	BioÃ©conomieâ€‰: un retour historique sur deux problÃ©matisations de lâ€™usage des ressources renouvelables. Natures Sciences Societes, 2020, 28, 216-225.	0.4	3
2822	Greenhouse Gas Emission Mitigation Potential of Chemicals Produced from Biomass. ACS Sustainable Chemistry and Engineering, 2021, 9, 14480-14487.	6.7	27
2823	Reductive Amination, Hydrogenation and Hydrodeoxygenation of 5â€Hydroxymethylfurfural using Silicaâ€supported Cobaltâ€Nanoparticles. ChemCatChem, 2022, 14, .	3.7	19
2824	Catalytic conversion of sucrose to 5-hydroxymethylfurfural in green aqueous and organic medium. Journal of Environmental Chemical Engineering, 2022, 10, 106613.	6.7	9
2825	Selective Ammonolysis of Bioderived Esters for Biobased Amide Synthesis. ACS Omega, 2021, 6, 30040-30049.	3.5	2
2826	Intermolecular Diels-Alder Cycloadditions of Furfural-Based Chemicals from Renewable Resources: A Focus on the Regio- and Diastereoselectivity in the Reaction with Alkenes. International Journal of Molecular Sciences, 2021, 22, 11856.	4.1	18
2827	Na-MnOx catalyzed aerobic oxidative cleavage of biomass-derived 1,2-diols to synthesis medium-chain furanic chemicals. Green Energy and Environment, 2022, 7, 957-964.	8.7	6
2829	Polystyrene immobilized BrÃ¸nsted acid ionic liquid as an efficient and recyclable catalyst for the synthesis of 5-hydroxymethylfurfural from fructose. Journal of Molecular Liquids, 2022, 345, 117811.	4.9	19
2830	Current breakthroughs in the hardwood biorefineries: Hydrothermal processing for the co-production of xylooligosaccharides and bioethanol. Bioresource Technology, 2022, 343, 126100.	9.6	31
2831	Design of noble metal-free CoTiO3/Zn0.5Cd0.5S heterostructure photocatalyst for selective synthesis of furfuraldehyde combined with H2production. Journal of Colloid and Interface Science, 2022, 608, 1040-1050.	9.4	40
2832	BiotransformaÃ§Ã£o da biomassa lignocelulÃ³sica visando Ã integraÃ§Ã£o da produÃ§Ã£o de biocombustÃveis, enzimas e nanocelulose em biorrefinarias. , 2020, , 101-122.		0

#	Article	IF	Citations
2833	CatÃ¡lise homogÃªnea na valorizaÃ§Ã£o da biomassa. , 2020, , 181-204.		0
2834	A smart use of biomass derivatives to template an <i>ad hoc</i> hierarchical SAPO-5 acid catalyst. RSC Advances, 2020, 10, 38578-38582.	3.6	0
2835	The Role of Heterogeneous Catalysts in Converting Cellulose to Platform Chemicals. Nanotechnology in the Life Sciences, 2020, , 305-328.	0.6	1
2836	Nanostructured Heterogeneous Catalysts for Biomass Conversion in Green Solvents. , 2020, , 1-24.		0
2837	Bio-Based Aromatics: Aminobenzoic Acid Derivatives for High-Performance Bioplastics. ACS Symposium Series, 2020, , 99-121.	0.5	2
2838	Homogenous Iridium Catalysts for Biomass Conversion. Topics in Organometallic Chemistry, 2020, , 341-395.	0.7	2
2839	Semi-aromatic biobased polyesters derived from lignin and cyclic carbonates. Green Chemistry, 2021, 23, 9658-9668.	9.0	5
2842	Current Progress in Production of Building-Block Organic Acids by Consolidated Bioprocessing of Lignocellulose. Fermentation, 2021, 7, 248.	3.0	23
2843	Effects of Nonhydroxyl Oxygen Heteroatoms in Diethylene Glycols on the Properties of 2,5-Furandicarboxylic Acid-Based Polyesters. Biomacromolecules, 2021, 22, 4823-4832.	5.4	12
2844	Homogeneous Catalysis for Sustainable Energy: Hydrogen and Methanol Economies, Fuels from Biomass, and Related Topics. Chemical Reviews, 2022, 122, 385-441.	47.7	223
2845	Heterogeneous Catalysis to Drive the Waste-to-Pharma Concept: From Furanics to Active Pharmaceutical Ingredients. Molecules, 2021, 26, 6738.	3.8	3
2846	Selective oxidation of glucose to gluconic acid and glucaric acid with chlorin e6 modified carbon nitride as metal-free photocatalyst. Applied Catalysis B: Environmental, 2022, 303, 120895.	20.2	45
2847	Sustainability performance of polyethylene terephthalate, clarifying challenges and opportunities. Journal of Polymer Science, 2022, 60, 7-31.	3.8	39
2848	Decarbonylation of Furfural to Furan over Titania-supported Palladium Nanoparticles Prepared by a Photo-assisted Deposition Method. Journal of the Japan Petroleum Institute, 2020, 63, 204-212.	0.6	1
2849	Development of Catalytic Reduction of Renewable Carbon Resources Using Well-Elaborated Organometallic Complexes with PNNP Tetradentate Ligands. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2020, 78, 856-866.	0.1	2
2850	Biobased Economy: Critical Foundation for Achieving Sustainable Development Goals. Encyclopedia of the UN Sustainable Development Goals, 2021, , 49-59.	0.1	0
2851	In situ Generated Ru(0)-HRO@Na-Î² From Hydrous Ruthenium Oxide (HRO)/Na-Î²: An Energy-Efficient Catalyst for Selective Hydrogenation of Sugars. Frontiers in Chemistry, 2020, 8, 525277.	3.6	1
2852	A DFT study of the aldol condensation reaction in the processing of ethanol to 1,3-butadiene on a MgO/SiO₂ surface. New Journal of Chemistry, 2022, 46, 559-571.	2.8	2

#	Article	IF	Citations
2853	Recommendations for replacing PET on packaging, fiber, and film materials with biobased counterparts. Green Chemistry, 2021, 23, 8795-8820.	9.0	77
2854	Complete design case study for pulp and paper industry. , 2022, , 641-681.		0
2855	Technology toward biochemicals precursors and bioplastic production. , 2022, , 265-341.		1
2856	Ð”Ð•Ð“Ð†Ð”ÐÐ˜Ð¢ÐÐ¦Ð†Ð¯ Ð¡ÐžÐÐ'Ð†Ð¢ÐžÐ›Ð£ Ð”Ðž Ð†Ð—ÐžÐ¡ÐžÐÐ'Ð†Ð”Ð£ Ð'Ð•Ð— ÐÐžÐ—Ð§Ð˜ÐÐÐ˜ÐšÐ 2Ð•Ð¡Ð£Ð›Ð¬ÐÐžÐ		
2857	Transition-metal-free decarboxylation of D-glucaric acid to furan catalyzed by SnCl4 in a biphasic system. Molecular Catalysis, 2021, 516, 111958.	2.0	1
2858	Production of Copolyester Monomers from Plantâ€Based Acrylate and Acetaldehyde. Angewandte Chemie - International Edition, 2022, 61, .	13.8	1
2859	Bio-based and one-day compostable poly(diethylene 2,5-furanoate) for sustainable flexible food packaging: Effect of ether-oxygen atom insertion on the final properties. Chemosphere, 2022, 291, 132996.	8.2	12
2860	Development of Sustainable Catalytic Pathways for Furan Derivatives. Frontiers in Chemistry, 2021, 9, 707908.	3.6	1
2861	Production of methyl levulinate from cellulose over cobalt disulfide: The importance of the crystal facet (111). Bioresource Technology, 2022, 347, 126436.	9.6	3
2862	Implementation of Synthetic Pathways to Foster Microbe-Based Production of Non-Naturally Occurring Carboxylic Acids and Derivatives. Journal of Fungi (Basel, Switzerland), 2021, 7, 1020.	3.5	1
2863	Sustainable Production of Acrylic Acid via 3-Hydroxypropionic Acid from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2021, 9, 16659-16669.	6.7	33
2864	Biomass-Derived, Highly Conductive Aqueous Inks for Superior Electromagnetic Interference Shielding, Joule Heating, and Strain Sensing. ACS Applied Materials & Interfaces, 2021, 13, 57930-57942.	8.0	27
2865	Towards high-performance sustainable polymers via isomerization-driven irreversible ring-opening polymerization of five-membered thionolactones. Nature Chemistry, 2022, 14, 294-303.	13.6	73
2866	Insight into Biomass Upgrade: A Review on Hydrogenation of 5-Hydroxymethylfurfural (HMF) to 2,5-Dimethylfuran (DMF). Molecules, 2021, 26, 6848.	3.8	13
2867	Atomâ€economic Approach to the Synthesis of Î±â€(Hetero)arylâ€substituted Furan Derivatives from Biomass. Chemistry - an Asian Journal, 2022, 17, .	3.3	3
2868	Highly Efficient Biobased Synthesis of Acrylic Acid. Angewandte Chemie, 2022, 134, .	2.0	9
2869	Synthesis and properties of poly(ethyleneâ€coâ€diethylene glycol 2,5â€furandicarboxylate) copolymers. Journal of Applied Polymer Science, 2022, 139, 51921.	2.6	5
2870	Construction of Cu-M-O<i>_x</i> (M = Zn or Al) Interface in Cu Catalysts for Hydrogenation Rearrangement of Furfural. Industrial & Engineering Chemistry Research, 2021, 60, 16939-16950.	3.7	12

#	Article	IF	Citations
2871	Highly Efficient Biobased Synthesis of Acrylic Acid. Angewandte Chemie - International Edition, 2022, 61, .	13.8	32
2872	Metabolic engineering of <i>Vibrio natriegens</i> for anaerobic succinate production. Microbial Biotechnology, 2022, 15, 1671-1684.	4.2	17
2873	Production of Copolyester Monomers from Plantâ€Based Acrylate and Acetaldehyde. Angewandte Chemie, 0, , .	2.0	0
2874	Catalytic valorization of biomass for furfuryl alcohol by novel deep eutectic solvent-silica chemocatalyst and newly constructed reductase biocatalyst. Bioresource Technology, 2022, 347, 126376.	9.6	20
2875	Pt Nanoparticles on ZSM-5 Nanoparticles for Base-Free Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. ACS Applied Nano Materials, 2021, 4, 14047-14059.	5.0	14
2876	Conversion of Cellulose into Value-Added Products. , 0, , .		1
2877	Synthesis of fully biobased semi-aromatic furan polyamides with high performance through facile green synthesis process. European Polymer Journal, 2022, 162, 110932.	5.4	13
2878	Valorization of the organic fraction of municipal solid waste for fumaric acid production and electrochemical membrane extraction using Candida blankii. Bioresource Technology Reports, 2022, 17, 100900.	2.7	0
2879	Visible-light-driven prompt and quantitative production of lactic acid from biomass sugars over a N-TiO₂ photothermal catalyst. Green Chemistry, 2021, 23, 10039-10049.	9.0	27
2880	Unexpected reactivity related to support effects during xylose hydrogenation over ruthenium catalysts. RSC Advances, 2021, 11, 39387-39398.	3.6	6
2881	Mesoporous Molecular Sieves Si-SCZ Solid Superacid as a Catalyst for Alcoholysis of Fructose into Methyl Levulinate. SSRN Electronic Journal, 0, , .	0.4	0
2882	Recent advances in polymer membranes employing non-toxic solvents and materials. Green Chemistry, 2021, 23, 9815-9843.	9.0	71
2883	Research progress on the preparation and application of biomass derived methyl levulinate. Green Chemistry, 2021, 23, 9254-9282.	9.0	20
2884	Catalytic Furfural/5-Hydroxymethyl Furfural Oxidation to Furoic Acid/Furan-2,5-dicarboxylic Acid with H₂ Production Using Alkaline Water as the Formal Oxidant. Journal of the American Chemical Society, 2022, 144, 1288-1295.	13.7	41
2885	Synthesis of Secondary Monoalcohols from Terminal Vicinal Alcohols over Silica-Supported Rhenium-Modified Ruthenium Catalyst. ACS Sustainable Chemistry and Engineering, 2022, 10, 1220-1231.	6.7	8
2886	A hybrid strategy for efficient valorization of bulrush into furoic acid in waterâ€"ChCl-based deep eutectic solvent. Industrial Crops and Products, 2022, 177, 114434.	5.2	15
2887	Towards novel lignin-based aromatic polyesters: In-depth study of the thermal degradation and crystallization of poly(propylene vanillate). Thermochimica Acta, 2022, 709, 179145.	2.7	6
2888	High-Level fermentative production of Lactic acid from bread waste under Non-sterile conditions with a circular biorefining approach and zero waste discharge. Fuel, 2022, 313, 122976.	6.4	17

#	Article	IF	Citations
2889	Heterogeneous photocatalytic aqueous succinic acid formation from maleic acid reduction. Chemical Engineering Journal, 2022, 431, 134131.	12.7	5
2890	Total Hydrogenation of Furfural under Mild Conditions over a Durable Ni/TiO₂â€"SiO₂ Catalyst with Amorphous TiO₂ Species. ACS Omega, 2020, 5, 30257-30266.	3.5	12
2891	Conversion of furfuryl alcohol to ethyl levulinate in the presence of mesoporous aluminosilicate catalyst. Open Chemistry, 2021, 19, 1294-1300.	1.9	1
2892	Aqueous-Phase Reforming of Glycerol Over Pt-Co Catalyst: Effect of Process Variables. SSRN Electronic Journal, 0, , .	0.4	0
2893	Co-Production of Hydrogen and Acetaldehyde from Ethanol Over a Highly Dispersed Cu Catalyst. SSRN Electronic Journal, 0, , .	0.4	0
2894	Influence of synthesis conditions on molecular weight as well as mechanical and thermal properties of poly(hexamethylene 2,5-furanate). Polimery, 2021, 66, .	0.7	0
2895	Statistical Modeling and Optimization of the Drawing Process of Bioderived Polylactide/Poly(dodecylene furanoate) Wet-Spun Fibers. Polymers, 2022, 14, 396.	4.5	9
2896	Bioconversion of Agricultural Residue into Biofuel and High-Value Biochemicals: Recent Advancement. Energy, Environment, and Sustainability, 2022, , 233-268.	1.0	4
2897	Selective Reduction of Carboxylic Acids to Alcohols in the Presence of Alcohols by a Dual Bulky Transition-Metal Complex/Lewis Acid Catalyst. ACS Catalysis, 2022, 12, 1957-1964.	11.2	10
2898	Recent Advances in the Catalytic Upgrading of Biomass Platform Chemicals Via Hydrotalcite-Derived Metal Catalysts. Transactions of Tianjin University, 2022, 28, 89-111.	6.4	17
2899	Kinetic study of the conversion of glucose to 5-hydroxymethylfurfural using niobium phosphate. Molecular Catalysis, 2022, 518, 112079.	2.0	4
2900	Contribution of Fermentation Technology to Building Blocks for Renewable Plastics. Fermentation, 2022, 8, 47.	3.0	11
2901	Effective Dehydration of Fructose Over Stable Ti-Doped SBA-15 Catalysts. Frontiers in Chemistry, 2021, 9, 817417.	3.6	0
2902	A Rapid HPLC Method for the Simultaneous Determination of Organic Acids and Furans: Food Applications. Beverages, 2022, 8, 6.	2.8	9
2903	Efficient conversion of bio-renewable citric acid to high-value carboxylic acids on stable solid catalysts. Green Chemistry, 2022, 24, 1650-1658.	9.0	11
2904	Production of Platform Chemicals and High Value Products from Hemicellulose. Clean Energy Production Technologies, 2022, , 361-397.	0.5	1
2905	Bioplastics for a circular economy. Nature Reviews Materials, 2022, 7, 117-137.	48.7	550
2906	Catalytic Enantioselective Reactions of Biomass-Derived Furans. , 0, , .		0

#	Article	IF	Citations
2907	Effect of membrane purification and concentration of sucrose in sugar beet molasses for the production of 5-hydroxymethylfurfural. Chemical Engineering Research and Design, 2022, 179, 365-373.	5.6	5
2908	Efficient synthesis of 2,5-furandicarboxylic acid from biomass-derived 5-hydroxymethylfurfural in 1,4-dioxane/H2O mixture. Applied Catalysis A: General, 2022, 630, 118463.	4.3	13
2909	Enhanced 3-Hydroxypropionic Acid Production From Acetate via the Malonyl-CoA Pathway in Corynebacterium glutamicum. Frontiers in Bioengineering and Biotechnology, 2021, 9, 808258.	4.1	13
2910	Operando generated copperâ€based catalyst enabling efficient electrosynthesis of 2,5â€bis(hydroxymethyl)furan. Fundamental Research, 2023, 3, 763-769.	3.3	7
2911	Tandem Thioâ€Michael Addition/Remote Lactone Activation of 5â€Hydroxymethylfurfuralâ€Derived Î´â€Lactoneâ€Fused Cyclopentenones. ChemSusChem, 2022, , e202102204.	6.8	2
2912	Facile Production of 2,5â€Furandicarboxylic Acid via Oxidation of Industrially Sourced Crude 5â€Hydroxymethylfurfural. ChemSusChem, 2022, 15, .	6.8	6
2913	Production of levulinic acid and alkyl levulinates: a process insight. Green Chemistry, 2022, 24, 614-646.	9.0	84
2914	Furfural â€“ a versatile, biomass-derived platform chemical for the production of renewable chemicals. Green Chemistry, 2022, 24, 510-551.	9.0	104
2915	Continuous Production of Fumaric Acid with Immobilised Rhizopus oryzae: The Role of pH and Urea Addition. Catalysts, 2022, 12, 82.	3.5	7
2916	Cyanobacteria as a renewable resource for biofuel production. , 2022, , 475-499.		0
2917	5â€Hydroxymethylfurfural and Furfural Chemistry Toward Biobased Surfactants. ChemSusChem, 2022, 15, .	6.8	10
2918	Recent advances in the catalytic transfer hydrogenation of furfural to furfuryl alcohol over heterogeneous catalysts. Green Chemistry, 2022, 24, 1780-1808.	9.0	94
2919	Polyoxometalate-Driven Ease Conversion of Valuable Furfural to <i>trans</i>-<i>N</i>,<i>N</i>-4,5-Diaminocyclopenten-2-ones. Journal of Organic Chemistry, 2022, 87, 2601-2615.	3.2	8
2920	Thermochemical conversion of heavy metal contaminated biomass: Fate of the metals and their impact on products. Science of the Total Environment, 2022, 822, 153426.	8.0	26
2921	Controllable and facile preparation of Co₉S₈â€“Ni₃S₂ heterostructures embedded with N,S,O-tri-doped carbon for electrocatalytic oxidation of 5-hydroxymethylfurfural. Green Chemistry, 2022, 24, 1721-1731.	9.0	41
2922	Applications of heteropoly acids in industry. , 2022, , 305-373.		1
2923	Integrated bio-based processes for the production of industrially important chemicals. , 2022, , 163-187.		1
2924	Sustainable production of succinic acid by utilization of agricultural wastes. , 2022, , 463-480.		1

#	Article	IF	Citations
2925	Applications of Microbes for Energy. Environmental and Microbial Biotechnology, 2022, , 153-190.	0.7	1
2926	Conversion of Biomass-Derived Methyl Levulinate to Methyl Vinyl Ketone. ACS Sustainable Chemistry and Engineering, 2022, 10, 766-775.	6.7	8
2927	Optimization-based analysis of integrated lignocellulosic biorefineries in Spain focusing on building blocks. Biomass Conversion and Biorefinery, 2024, 14, 435-450.	4.6	3
2928	Biotransformation of 5-hydroxymethylfurfural and furfural with bacteria of bacillus genus. Biocatalysis and Agricultural Biotechnology, 2022, 39, 102281.	3.1	11
2929	Processing Miscanthus to highâ€value chemicals: A technoâ€economic analysis based on process simulation. GCB Bioenergy, 2022, 14, 447-462.	5.6	14
2931	Surfactants produced from carbohydrate derivatives: A review of the biobased building blocks used in their synthesis. Journal of Surfactants and Detergents, 2022, 25, 147-183.	2.1	21
2932	A Furan-based Phosphaphenanthrene-containing Derivative as a Highly Efficient Flame-retardant Agent for Epoxy Thermosets without Deteriorating Thermomechanical Performances. Chinese Journal of Polymer Science (English Edition), 2022, 40, 233-240.	3.8	16
2933	Perspectives for the Upgrading of Bioâ€Based Vicinal Diols within the Developing European Bioeconomy. ChemSusChem, 2022, 15, .	6.8	12
2934	Enhanced Hydrogenation of Levulinic Acid over Ordered Mesoporous Aluminaâ€Supported Catalysts: Elucidating the Effect of Fabrication Strategy. ChemSusChem, 2022, 15, .	6.8	7
2935	Mechanoenzymatic Reactions Involving Polymeric Substrates or Products. ChemSusChem, 2022, 15, .	6.8	15
2936	Renewable bio-based routes to Î³-valerolactone in the presence of hafnium nanocrystalline or hierarchical microcrystalline zeotype catalysts. Journal of Catalysis, 2022, 406, 56-71.	6.2	11
2937	Production of renewable 1,3-pentadiene over LaPO4 via dehydration of 2,3-pentanediol derived from 2,3-pentanedione. Applied Catalysis A: General, 2022, 633, 118514.	4.3	2
2938	Effects of alkyl and phenyl-substituted 1,3-propanediols on the synthesis and properties of polyesters with 2,5-furandicarboxylic acid. Polymer, 2022, 242, 124584.	3.8	3
2939	The application of green solvent in a biorefinery using lignocellulosic biomass as a feedstock. Journal of Environmental Management, 2022, 307, 114385.	7.8	33
2940	Nanocatalyzed upcycling of the plastic wastes for a circular economy. Coordination Chemistry Reviews, 2022, 458, 214422.	18.8	54
2942	Role of noble metal catalysts for transformation of bio-based platform molecules. , 2022, , 641-672.		0
2943	Conversion of cellulosic biomass to furanics. , 2022, , 339-372.		1
2944	Whole Cell Biocatalysis of 5-Hydroxymethylfurfural for Sustainable Biorefineries. Catalysts, 2022, 12, 202.	3.5	13

#	Article	IF	Citations
2945	Sustainable Sorbitol Dehydration to Isosorbide using Solid Acid Catalysts: Transition from Batch Reactor to Continuousâ€Flow System. ChemSusChem, 2022, 15, .	6.8	13
2946	Radical generation and fate control for photocatalytic biomass conversion. Nature Reviews Chemistry, 2022, 6, 197-214.	30.2	69
2947	Furfural hydrogenation over Cu, Ni, Pd, Pt, Re, Rh and Ru catalysts: Ab initio modelling of adsorption, desorption and reaction micro-kinetics. Chemical Engineering Journal, 2022, 436, 135070.	12.7	32
2948	Effective Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Diformylfuran by an Acetal Protection Strategy. ChemSusChem, 2022, 15, .	6.8	7
2949	Monitoring the Degree of Carbonyl-Based Open Structure in a Furanic Macromolecular System. Macromolecules, 2022, 55, 1196-1204.	4.8	10
2950	Oxidation of 2,5-bis(hydroxymethyl)furan to 2,5-furandicarboxylic acid catalyzed by carbon nanotube-supported Pd catalysts. Chinese Journal of Catalysis, 2022, 43, 793-801.	14.0	5
2951	Design and Properties of a Novel Family of Nonionic Biobased Furanic Hydroxyester and Amide Surfactants. ACS Sustainable Chemistry and Engineering, 2021, 9, 16977-16988.	6.7	6
2953	Establishment of Kluyveromyces marxianus as a Microbial Cell Factory for Lignocellulosic Processes: Production of High Value Furan Derivatives. Journal of Fungi (Basel, Switzerland), 2021, 7, 1047.	3.5	16
2954	Nanocatalyzed Upcycling of the Plastic Wastes for a Circular Economy. SSRN Electronic Journal, 0, , .	0.4	0
2955	Spinel-based catalysts for the biomass valorisation of platform molecules<i>via</i>oxidative and reductive transformations. Green Chemistry, 2022, 24, 3574-3604.	9.0	14
2956	Hydrodeoxygenation reactivity of the carbonyl group and carboxyl group and their interaction: taking 2-pentanone, valeric acid, and levulinic acid as examples. Sustainable Energy and Fuels, 2022, 6, 1780-1793.	4.9	1
2957	Continuous flow Meerweinâ€"Ponndorfâ€"Verley reduction of HMF and furfural using basic zirconium carbonate. RSC Advances, 2022, 12, 7980-7989.	3.6	5
2958	Lignocellulosic Biomass as Initial Feedstock for the Production of 5-Hmf and Furfural. SSRN Electronic Journal, 0, , .	0.4	1
2959	Sustainable biomass hydrodeoxygenation in biphasic systems. Green Chemistry, 2022, 24, 1930-1950.	9.0	24
2960	Hmf Hydrogenolysis Over Carbon Supported Ni-Cu Catalyst to Produce Hydrogenated Biofuels. SSRN Electronic Journal, 0, , .	0.4	0
2961	Titania-supported molybdenum oxide combined with Au nanoparticles as a hydrogen-driven deoxydehydration catalyst of diol compounds. Catalysis Science and Technology, 2022, 12, 2146-2161.	4.1	14
2962	Life Cycle Greenhouse Gas Emissions and Water and Fossil-Fuel Consumptions for Polyethylene Furanoate and Its Coproducts from Wheat Straw. ACS Sustainable Chemistry and Engineering, 2022, 10, 2830-2843.	6.7	14
2963	Next-Generation High-Performance Bio-Based Naphthalate Polymers Derived from Malic Acid for Sustainable Food Packaging. ACS Sustainable Chemistry and Engineering, 2022, 10, 2624-2633.	6.7	8

#	Article	IF	Citations
2964	Trends in Formic Acid Electro-Oxidation on Transition Metals Alloyed with Platinum and Palladium. Journal of Physical Chemistry C, 2022, 126, 4374-4390.	3.1	8
2965	Sulfonated N-Doped Carbon Nanotubes as Magnetic Solid Acid Catalysts for the Synthesis of Diphenolic Acid. ACS Applied Nano Materials, 2022, 5, 4214-4221.	5.0	2
2966	Biotechnological Innovations and Therapeutic Application of Pediococcus and Lactic Acid Bacteria: The Next-Generation Microorganism. Frontiers in Bioengineering and Biotechnology, 2021, 9, 802031.	4.1	10
2967	The Road to Bring FDCA and PEF to the Market. Polymers, 2022, 14, 943.	4.5	57
2968	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. ACS Sustainable Chemistry and Engineering, 2022, 10, 3079-3115.	6.7	56
2969	State of the Art on the Microbial Production of Industrially Relevant Organic Acids. Catalysts, 2022, 12, 234.	3.5	9
2970	Biobased Thermosetting Polyester Resin for High-Performance Applications. ACS Sustainable Chemistry and Engineering, 2022, 10, 3442-3454.	6.7	25
2971	Valorization of landscape management grass. Biomass Conversion and Biorefinery, 2024, 14, 2889-2905.	4.6	5
2972	Ni-Cu/Al2O3 from Layered Double Hydroxides Hydrogenates Furfural to Alcohols. Catalysts, 2022, 12, 390.	3.5	6
2973	Integrated Catalytic Sites for Highly Efficient Electrochemical Oxidation of the Aldehyde and Hydroxyl Groups in 5-Hydroxymethylfurfural. ACS Catalysis, 2022, 12, 4242-4251.	11.2	74
2974	Collaborative Electrochemical Oxidation of the Alcohol and Aldehyde Groups of 5-Hydroxymethylfurfural by NiOOH and Cu(OH)₂ for Superior 2,5-Furandicarboxylic Acid Production. ACS Catalysis, 2022, 12, 4078-4091.	11.2	45
2975	Preparation of Thioaminals in Water. Molecules, 2022, 27, 1673.	3.8	3
2976	Computational Mechanism of Methyl Levulinate Conversion to Î³-Valerolactone on UiO-66 Metal Organic Frameworks. ACS Sustainable Chemistry and Engineering, 2022, 10, 3567-3573.	6.7	8
2977	Renewable Furfural-Based Polyesters Bearing Sulfur-Bridged Difuran Moieties with High Oxygen Barrier Properties. Biomacromolecules, 2022, 23, 1803-1811.	5.4	10
2978	Synthesis of bioâ€based polyesters with crystallization properties comparable to poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 18	3.2	9
2979	Synthetic Routes for Designing Furanic and Non Furanic Biobased Surfactants from 5â€Hydroxymethylfurfural. ChemSusChem, 2022, 15, .	6.8	9
2980	Technoeconomic and Life-Cycle Assessment for Electrocatalytic Production of Furandicarboxylic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 4206-4217.	6.7	13
2981	Liquid Organic Hydrogen Carriers (LOHCs) as Hâ€Source for Bioâ€Derived Fuels and Additives Production. Advanced Energy Materials, 2022, 12, .	19.5	26

#	Article	IF	Citations
2982	Sustainable Catalytic Transformation of Biomassâ€Derived 5â€Hydroxymethylfurfural to 2,5â€Bis(hydroxymethyl)tetrahydrofuran. ChemSusChem, 2022, 15, .	6.8	11
2983	High-Value Chemicals from Electrocatalytic Depolymerization of Lignin: Challenges and Opportunities. International Journal of Molecular Sciences, 2022, 23, 3767.	4.1	7
2984	Modeling of Pretreatment and Combined Alkaline and Enzymatic Hydrolyses of Blue Agave Bagasse in Corotating Twinâ€Screw Extruders. Macromolecular Reaction Engineering, 0, , 2100059.	1.5	1
2985	Oxidation of 5â€hydroxymethylfurfural with a novel aryl alcohol oxidase from <i>Mycobacterium</i> sp. MS1601. Microbial Biotechnology, 2022, 15, 2176-2190.	4.2	3
2986	Design and Application of a High-Surface-Area Mesoporous Î´-MnO₂ Electrocatalyst for Biomass Oxidative Valorization. Chemistry of Materials, 2022, 34, 3123-3132.	6.7	19
2987	Identification of Crucial Intermediates in the Formation of Humins from Celluloseâ€Derived Platform Chemicals Under BrÃ¸nsted Acid Catalyzed Reaction Conditions. ChemPhysChem, 2022, 23, .	2.1	5
2988	Kinetics of glycerol dehydration-hydrogenation reaction in the vapor phase in a fixed bed down flow tubular reactor over a bi-functional Cu-Zn/MgO catalyst. Catalysis Today, 2022, 404, 190-200.	4.4	5
2989	Advances in the Catalytic Reductive Amination of Furfural to Furfural Amine: The Momentous Role of Active Metal Sites. ChemSusChem, 2022, 15, .	6.8	22
2990	Highly Flameâ€Retarded Epoxy Thermoset Imparted by Bioâ€Based Phosphorus/Nitrogenâ€Containing Furan Derivative with Enhanced Mechanical Toughness. Macromolecular Materials and Engineering, 2022, 307, .	3.6	3
2991	Modeling the Conformational Preference of the Lignocellulose Interface and Its Interaction with Weak Acids. Journal of Physical Chemistry A, 2022, 126, 2119-2126.	2.5	8
2992	Biosynthetic Pathway and Metabolic Engineering of Succinic Acid. Frontiers in Bioengineering and Biotechnology, 2022, 10, 843887.	4.1	19
2993	Recent advances in amine catalyzed aldol condensations. Catalysis Reviews - Science and Engineering, 0, , 1-83.	12.9	7
2994	Active metal oxide-nitrogen-doped carbon hybrid catalysts towards selective catalytic transfer hydrogenation of furfural to furfuryl alcohol. Applied Catalysis A: General, 2022, 636, 118574.	4.3	3
2995	Production of ethanol, lipid and lactic acid from mixed agrowastes hydrolysate. Natural Product Research, 2023, 37, 2575-2582.	1.8	3
2996	Ru-decorated N-doped carbon nanoflakes for selective hydrogenation of levulinic acid to Î³-valerolactone and quinoline to tetrahydroquinoline with HCOOH in water. Applied Catalysis A: General, 2022, 636, 118580.	4.3	16
2997	RDRP (Meth)acrylic Homo and Block Polymers from Lignocellulosic Sugar Derivatives. Macromolecular Chemistry and Physics, 2022, 223, .	2.2	7
2998	Recent advances and challenges on enzymatic synthesis of biobased polyesters via polycondensation. European Polymer Journal, 2022, 169, 111132.	5.4	14
2999	Screening for suitable mixed microbial consortia from anaerobic sludge and animal dungs for biodegradation of brewery spent grain. Biomass and Bioenergy, 2022, 159, 106396.	5.7	4

#	Article	IF	Citations
3000	Developing future visions for bio-plastics substituting PET â€" A backcasting approach. Sustainable Production and Consumption, 2022, 31, 370-383.	11.0	22
3001	High conversion of xylose to furfural over corncob residue-based solid acid catalyst in water-methyl isobutyl ketone. Industrial Crops and Products, 2022, 180, 114781.	5.2	19
3002	Aqueous-phase reforming of glycerol over Pt-Co catalyst: Effect of process variables. Journal of Environmental Chemical Engineering, 2022, 10, 107402.	6.7	9
3003	Ce-doped cobalt aluminate catalysts for the glycerol hydrodeoxygenation (HDO) with in-situ produced hydrogen. Journal of Environmental Chemical Engineering, 2022, 10, 107612.	6.7	2
3004	Pursuing efficient systems for glucose transformation to levulinic acid: Homogeneous vs. heterogeneous catalysts and the effect of their co-action. Fuel, 2022, 318, 123712.	6.4	10
3005	Production of 100% bio-based semi-aromatic nylon by aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid with bio aliphatic diamine. Chemical Engineering Journal, 2022, 437, 135361.	12.7	22
3006	Highly active and scalable SO3H functionalized carbon catalyst synthesized from bagasse for transformation of bio-based platform chemicals into fuel precursors and its in-depth characterization studies. Fuel, 2022, 321, 124008.	6.4	13
3007	A dynamic Ni(OH)2-NiOOH/NiFeP heterojunction enabling high-performance E-upgrading of hydroxymethylfurfural. Applied Catalysis B: Environmental, 2022, 311, 121357.	20.2	75
3008	Co-production of hydrogen and acetaldehyde from ethanol over a highly dispersed Cu catalyst. Fuel, 2022, 321, 123980.	6.4	14
3009	Mechanistic Origins of the pH Dependency in Au-Catalyzed Glycerol Electro-oxidation: Insight from First-Principles Calculations. ACS Catalysis, 2022, 12, 662-675.	11.2	22
3010	Cationic UV Curing of Bioderived Epoxy Furan-Based Coatings: Tailoring the Final Properties by In Situ Formation of Hybrid Network and Addition of Monofunctional Monomer. ACS Sustainable Chemistry and Engineering, 2021, 9, 17403-17412.	6.7	17
3011	Itaconic Acid-Based Reactive Diluents for Renewable and Acrylate-Free UV-Curing Additive Manufacturing Materials. ACS Sustainable Chemistry and Engineering, 2021, 9, 17142-17151.	6.7	24
3012	Steam Explosion (STEX) of Citrus Ã— Poncirus Hybrids with Exceptional Tolerance to Candidatus Liberibacter Asiaticus (CLas) as Useful Sources of Volatiles and Other Commercial Products. Biology, 2021, 10, 1285.	2.8	1
3013	Advance on the pyrolytic transformation of cellulose. Journal of Fuel Chemistry and Technology, 2021, 49, 1733-1752.	2.0	13
3014	Recent Advances in Reductive Upgrading of 5â€Hydroxymethylfurfural via Heterogeneous Thermocatalysis. ChemSusChem, 2022, 15, .	6.8	11
3015	Cg10062 Catalysis Forges a Link between Acetylenecarboxylic Acid and Bacterial Metabolism. Biochemistry, 2021, 60, 3879-3886.	2.5	0
3016	Reductive Hydroformylation of Isosorbide Diallyl Ether. Molecules, 2021, 26, 7322.	3.8	11
3017	Fructose to Sorbents: Synthesis of Metalâ€"Organic Frameworks Directly from Biomass for Humid Shale Gas Separation. ACS Sustainable Chemistry and Engineering, 2021, 9, 17310-17318.	6.7	4

#	Article	IF	Citations
3018	Efficient Piancatelli rearrangement on a large scale using the Zippertex technology under subcritical water conditions. Reaction Chemistry and Engineering, 2022, 7, 1640-1649.	3.7	2
3019	METABOLIC PATHWAY MODIFICATION FOR PRODUCTION OF XYLITOL FROM GLUCOSE IN ESCHERICHIA COLI. Jurnal Teknologi (Sciences and Engineering), 2022, 84, 151-162.	0.4	1
3020	Sustainable production of furan-based oxygenated fuel additives from pentose-rich biomass residues. Energy Conversion and Management: X, 2022, 14, 100222.	1.6	6
3021	Yolk-shell nickelâ€“cobalt phosphides as bifunctional catalysts in the solvent-free hydrogenation of Levulinic acid to gamma-Valerolactone. Renewable Energy, 2022, 191, 763-774.	8.9	9
3022	Techno-Economic Assessment of Conceptual Design for Gamma-Valerolactone Production over a Bifunctional Zrâ€“Alâ€“Beta Catalyst. Industrial & Engineering Chemistry Research, 2022, 61, 5547-5556.	3.7	4
3023	Challenges of Green Production of 2,5â€Furandicarboxylic Acid from Bioâ€Derived 5â€Hydroxymethylfurfural: Overcoming Deactivation by Concomitant Amino Acids. ChemSusChem, 2022, 15, .	6.8	8
3024	Selective preparation of renewable ketals from biomass-based carbonyl compounds with polyols using Î2-zeolite catalyst. Molecular Catalysis, 2022, 524, 112269.	2.0	6
3025	A Î3-butyrolactone-derived poly(vinyl ester) with pendant groups recyclability and controlled release of poly(vinyl alcohol): Synthesis, recyclability, and physical properties. Reactive and Functional Polymers, 2022, 175, 105269.	4.1	0
3026	An overview and analysis of the thermodynamic and kinetic models used in the production of 5-hydroxymethylfurfural and furfural. Chemical Engineering Journal, 2022, 442, 136313.	12.7	14
3037	A Light(er) Approach for the Selective Hydrogenation of 5â€Hydroxymethylfurfural to 2,5â€Bis(hydroxymethyl)furan without External H₂. ChemSusChem, 2022, 15, .	6.8	2
3038	W exsolution promotes the <i>in situ</i> reconstruction of a NiW electrode with rich active sites for the electrocatalytic oxidation of 5-hydroxymethylfurfural (HMF). Catalysis Science and Technology, 2022, 12, 3363-3371.	4.1	8
3039	Catalytic valorisation of biomass levulinic acid into gamma valerolactone using formic acid as a H₂ donor: a critical review. RSC Advances, 2022, 12, 13673-13694.	3.6	13
3040	Assisted catalysis: An overview of alternative activation technologies for the conversion of biomass. , 2022, , 365-393.		3
3041	Disordered Hmww Zeolite Nanosheets Catalyzing Fructose to 5-Hydroxymethylfurfural. SSRN Electronic Journal, 0, , .	0.4	0
3042	Niobium grafted mesoporous silica for the production of biorenewable <i>p</i>-xylene from concentrated 2,5-dimethylfuran. Green Chemistry, 2022, 24, 4095-4107.	9.0	11
3043	Selective hydrogenation of glucose to sorbitol with tannic acid-based porous carbon sphere supported Niâ€“Ru bimetallic catalysts. Green Energy and Environment, 2023, 8, 1719-1727.	8.7	10
3044	Synthesis of Silicoâ€Phosphoâ€Aluminum Nanosheets by Adding Amino Acid and its Catalysis in the Conversion of Furfuryl Alcohol to Fuel Additives. ChemSusChem, 2022, 15, .	6.8	3
3045	A Hybrid Strategy for the Efficient Biosynthesis of Fufuryl Alcohol from Corncob in Formic Acidâ€“Water. Catalysis Letters, 0, , .	2.6	0

#	Article	IF	Citations
3047	Recent Advances in the Catalytic Conversion of Biomass to Furfural in Deep Eutectic Solvents. Frontiers in Chemistry, 2022, 10, .	3.6	6
3048	Quercetin-Zirconium: A Green and Highly Efficient Catalyst for the Meerweinâ€“Ponndorfâ€“Verley Reduction of Furfural. Catalysis Letters, 2023, 153, 720-731.	2.6	3
3049	A review on bioenergy production from duckweed. Biomass and Bioenergy, 2022, 161, 106468.	5.7	20
3050	Reactive liquidâ€“liquid extraction of bio-based 3-hydroxypropionic acid using a biocompatible organic phase containing a tertiary amine: A model-based approach to elucidate dominant mechanisms. Separation and Purification Technology, 2022, 294, 121184.	7.9	1
3051	Study of Î³-valerolactone production from hydrogenation of levulinic acid over nanostructured Pt-hydrotalcite catalysts at low temperature. Fuel, 2022, 323, 124272.	6.4	12
3052	Recent advances in heterogeneous catalysts for the synthesis of alkyl levulinate biofuel additives from renewable levulinic acid: A comprehensive review. Fuel, 2022, 323, 124362.	6.4	14
3053	Production of HMF and DMF biofuel from carbohydrates through catalytic pathways as a sustainable strategy for the future energy sector. Fuel, 2022, 324, 124474.	6.4	26
3054	SOME RECENT DEVELOPMENTS IN VALORIZATION OF CHITOSAN TO A VALUABLE PLATFORM CHEMICAL 5-HYDROXYMETHYLFURFURAL (5-HMF): A SHORT REVIEW. Catalysis in Green Chemistry and Engineering, 2022, 5, 1-18.	0.2	1
3055	Identification and quantification of valuable platform chemicals in aqueous product streams from a preliminary study of a large pilot-scale steam explosion of woody biomass using quantitative nuclear magnetic resonance spectroscopy. Biomass Conversion and Biorefinery, 2024, 14, 3331-3349.	4.6	6
3056	Synthesis and characterisation of polyamides based on 2,5-furandicarboxylic acid as a sustainable building block for engineering plastics. Polymer Chemistry, 2022, 13, 3433-3443.	3.9	11
3057	Nanostructured Materials from Biobased Precursors for Renewable Energy Storage Applications. ACS Symposium Series, 0, , 307-366.	0.5	1
3058	Î³-Valerolactone (GVL) as a green and efficient dipolar aprotic reaction medium. Current Opinion in Green and Sustainable Chemistry, 2022, 36, 100634.	5.9	5
3059	The use of GVL for holistic valorization of biomass. Computers and Chemical Engineering, 2022, 164, 107849.	3.8	4
3060	Thermodynamics and Reaction Kinetics of the Sorbitol Dehydration to Isosorbide Using NbOPO₄ as the Catalyst. Industrial & Engineering Chemistry Research, 2022, 61, 7833-7841.	3.7	4
3061	Hydrothermal Treatment of Residual Forest Wood (Softwood) and Digestate from Anaerobic Digestionâ€"Influence of Temperature and Holding Time on the Characteristics of the Solid and Liquid Products. Energies, 2022, 15, 3738.	3.1	2
3062	Directly converting cellulose into high yield sorbitol by tuning the electron structure of Ru2P anchored in agricultural straw biochar. Journal of Cleaner Production, 2022, 362, 132364.	9.3	6
3063	Efficient sugar production from plant biomass: Current status, challenges, and future directions. Renewable and Sustainable Energy Reviews, 2022, 164, 112583.	16.4	38
3064	Synthesis of Heteropolyacid (HPA) Functionalized Graphitic Carbon Nitride as Effective Catalysts for Converting Polysaccharides into High-Value Chemicals. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
3065	Production of high-added value compounds from biomass. , 2022, , 381-445.		2
3066	Production of biofuels and biobased chemicals in biorefineries and potential use of intensified technologies. , 2022, , 305-359.		0
3067	Heterologous Production of Acrylic Acid: Current Challenges and Perspectives. SynBio, 2022, 1, 3-32.	3.0	8
3068	é»žè´µé‡‘å±žåŸºå‚¬åŒ–å‰‚ç”¨äºŽç”Ÿç‰©è´¨ç”µæ°§åŒ–é«˜å€¼åŒ–å'©ç”¨çš„ ç"ç©¶è¿›å±•. Science China Materials, 2022, 65, 327	6.8	25
3069	Conversion of Glucose to 5-Hydroxymethylfurfural in Deep Eutectic Solvent of Choline Chlorideâ€"Chromium Chloride. Industrial & Engineering Chemistry Research, 2022, 61, 7216-7224.	3.7	9
3070	Copolymerisation of <i>Î²</i>â€butyrolactone and <i>Î³</i>â€butyrolactone using yttrium amine bis(phenolate) catalysts. Polymer International, 2022, 71, 1409-1417.	3.1	3
3071	C3â€"H Silylation of Furfural Derivatives: Direct Access to a Versatile Synthetic Platform Derived from Biomass. Asian Journal of Organic Chemistry, 0, , .	2.7	3
3072	Quebracho Tannin Bio-Based Adhesives for Plywood. Polymers, 2022, 14, 2257.	4.5	6
3073	HMF hydrogenolysis over carbon-supported Niâ€"Cu catalysts to produce hydrogenated biofuels. Energy, 2022, 255, 124437.	8.8	8
3074	Phosphonium-Based Ionic Liquid Significantly Enhances SERS of Cytochrome <i>c</i> on TiO₂ Nanotube Arrays. ACS Applied Materials & Interfaces, 2022, 14, 27456-27465.	8.0	5
3075	Simultaneous low friction and ultra-low wear enabled by a 2,5-Furandicarboxylic acid derived bio-based ionic liquid. Tribology International, 2022, 174, 107683.	5.9	3
3076	Hydrodeoxygenation of potential platform chemicals derived from biomass to fuels and chemicals. Green Chemistry, 2022, 24, 5652-5690.	9.0	27
3077	Advances in microbial synthesis of bioplastic monomers. Advances in Applied Microbiology, 2022, , .	2.4	0
3078	Ultra-Dilute High-Entropy Alloy Catalyst with Core-Shell Structure for High-Active Hydrogenation of Furfural to Furfuryl Alcohol at Mild Temperature. SSRN Electronic Journal, 0, , .	0.4	0
3079	Boundaries and openings of biorefineries towards sustainable biofuel production. , 2022, , 3-22.		1
3080	A comprehensive integration of biorefinery concepts for the production of biofuels from lignocellulosic biomass. , 2022, , 45-70.		1
3081	Sustainable polymers. Nature Reviews Methods Primers, 2022, 2, .	21.2	78
3082	Efficient Catalytic Conversion of 5â€Hydroxymethylfurfural to 2,5â€Furanâ€dicarboxylic Acid over Ruthenium Clusterâ€Embedded Ni(OH)2 Catalyst. ChemSusChem, 0, , .	6.8	5

#	Article	IF	Citations
3083	Transfer hydrogenation of levulinic acid to Î³-valerolactone over acid site-modified CuNi alloy. Biomass Conversion and Biorefinery, 2024, 14, 8271-8282.	4.6	6
3084	Rhizopus oryzae for Fumaric Acid Production: Optimising the Use of a Synthetic Lignocellulosic Hydrolysate. Fermentation, 2022, 8, 278.	3.0	3
3085	Evolution Process of Humins Derived from Glucose. ChemistrySelect, 2022, 7, .	1.5	5
3086	Eco-Friendly Synthesis of PEtOz-PA: A Promising Polymer for the Formulation of Curcumin-Loaded Micelles. Molecules, 2022, 27, 3788.	3.8	1
3087	A critical review on prospects of bio-refinery products from second and third generation biomasses. Chemical Engineering Journal, 2022, 448, 137677.	12.7	42
3088	Aromatic sulfonic acid-catalyzed conversion of safflower stalk into levulinic acid. Biomass Conversion and Biorefinery, 2024, 14, 1105-1116.	4.6	2
3089	Nanoarchitectonics of sulfonated biochar from pine needles as catalyst for conversion of biomass derived chemicals to value added products. Catalysis Communications, 2022, 168, 106467.	3.3	26
3090	Synthesis of heteropolyacid (HPA) functionalized graphitic carbon nitride as effective catalysts for converting polysaccharides into high-value chemicals. Resources, Conservation and Recycling, 2022, 185, 106473.	10.8	2
3091	Biochemical synthesis for carbon derivatives. , 2022, , 55-70.		0
3092	Organic synthesis for carbon derivatives. , 2022, , 27-40.		0
3093	Water-soluble ruthenium complex-pyrene dyads with extended triplet lifetimes for efficient energy transfer applications. Dalton Transactions, 2022, 51, 10799-10808.	3.3	10
3094	Selective Electroreduction of Levulinic Acid Via Controlling the Crystalline Structure of Pbo on Electrodes. SSRN Electronic Journal, 0, , .	0.4	0
3095	Optimal Conversion of Organic Wastes to Value-Added Products: Toward a Sustainable Integrated Biorefinery in Denmark. Frontiers in Chemical Engineering, 0, 4, .	2.7	4
3096	Promoting biomass electrooxidation via modulating proton and oxygen anion deintercalation in hydroxide. Nature Communications, 2022, 13, .	12.8	60
3097	Evaluation of Acidic Ionic Liquids as Catalysts for Furfural Production from Eucalyptus nitens Wood. Molecules, 2022, 27, 4258.	3.8	2
3098	The Revitalization of â€˜the Closer the Betterâ€™ in Zeoliteâ€Tailored Bifunctional Catalysts for Biomass Valorization. ChemCatChem, 2022, 14, .	3.7	3
3099	Keystone and stumbling blocks in the use of ionizing radiation for recycling plastics. Radiation Physics and Chemistry, 2022, 201, 110397.	2.8	8
3100	Hot-lithography 3D printing of biobased epoxy resins. Polymer, 2022, 254, 125097.	3.8	10

#	Article	IF	Citations
3101	Electroplating sludge-derived magnetic copper-containing catalysts for selective hydrogenation of bio-based furfural. Biomass Conversion and Biorefinery, 0, , .	4.6	2
3102	Integration of a well-designed biomass pair in electrochemical hydrogen pump reactor: ethylene glycol dehydrogenation and levulinic acid hydrogenation. International Journal of Hydrogen Energy, 2022, , .	7.1	0
3103	In Situ Synthesis, Crystallization Behavior, and Mechanical Property of Biobased Poly(hexamethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Chemistry Research, 2022, 61, 9745-9754.	3.7	4
3104	Critical Assessment of Reaction Pathways for Next-Generation Biofuels from Renewable Resources: 5-Ethoxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2022, 10, 9002-9021.	6.7	13
3105	Insights into the Play of Novel BrÃ¸nsted Acid-Based Deep Eutectic Solvents for the Conversion of Glucose into 5-Hydroxymethylfurfural without Additional Catalysts. Industrial & Engineering Chemistry Research, 2022, 61, 11645-11654.	3.7	3
3106	Recent advances in supported ionic liquid catalysts for sustainable biomass valorisation to high-value chemicals and fuels. Chemical Engineering Journal, 2022, 450, 138032.	12.7	29
3107	Photocatalytic reduction of levulinic acid using thermally modified niobic acid. Chemical Engineering Journal, 2022, 450, 137935.	12.7	5
3108	Catalytic conversion of glucose and its biopolymers into renewable compounds by inducing Câ€“C bond scission and formation. Biomass Conversion and Biorefinery, 0, , .	4.6	2
3109	Complexity reduction and opportunities in the design, integration and intensification of biocatalytic processes for metabolite synthesis. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	3
3110	Valorization of a Levulinic Acid Platform through Electrospinning of Polyhydroxyalkanoate-Based Fibrous Membranes for In Vitro Modeling of Biological Barriers. ACS Applied Polymer Materials, 0, , .	4.4	7
3111	Selective hydrodeoxygenation of 5-hydroxymethylfurfural (HMF) to 2,5-dimethylfuran (DMF) over carbon supported copper catalysts using isopropyl alcohol as a hydrogen donor. Applied Catalysis B: Environmental, 2022, 317, 121790.	20.2	23
3112	Acacia Wood Fractionation Using Deep Eutectic Solvents: Extraction, Recovery, and Characterization of the Different Fractions. ACS Omega, 2022, 7, 26005-26014.	3.5	7
3113	Selective Oxidation of Furfural at Room Temperature on a TiO2-Supported Ag Catalyst. Catalysts, 2022, 12, 805.	3.5	2
3114	Catalytic oxidation of glycerol in alkaline medium â€“ Influence of mass transport limitations. Canadian Journal of Chemical Engineering, 2023, 101, 2060-2074.	1.7	0
3115	Comparing <i>in planta</i> accumulation with microbial routes to set targets for a cost-competitive bioeconomy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
3116	Influence of Sn Content in Sn-Î² on Selective Production of Methyl Lactate from Glucose. Catalysis Letters, 0, , .	2.6	1
3117	5-Hydroxymethylfurfural Oxidation to 2,5-Furandicarboxylic Acid on Noble Metal-Free Nanocrystalline Mixed Oxide Catalysts. Catalysts, 2022, 12, 814.	3.5	1
3118	Valorization of lipid-extracted spent coffee grounds: The synthesis of levulinic acid by thermochemical process. Industrial Crops and Products, 2022, 187, 115410.	5.2	5

#	Article	IF	Citations
3119	Applications of Xylitol in Food, Material, Health, and Medical Sector. , 2022, , 205-237.		0
3120	Ruthenium(<scp>ii</scp>)-catalyzed deoxygenation of ketones. Chemical Communications, 2022, 58, 10572-10575.	4.1	9
3121	Modeling the Succinic Acid Bioprocess: A Review. Fermentation, 2022, 8, 368.	3.0	4
3122	Photocatalytic dehydrogenative C-C coupling of acetonitrile to succinonitrile. Nature Communications, 2022, 13, .	12.8	12
3123	(Chemo)biocatalytic Upgrading of Biobased Furanic Platforms to Chemicals, Fuels, and Materials: A Comprehensive Review. ACS Catalysis, 2022, 12, 10080-10114.	11.2	50
3124	Translating advances in microbial bioproduction to sustainable biotechnology. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	7
3125	Multiscale Molecular Simulation Strategies for Understanding the Delignification Mechanism of Biomass in Cyrene. ACS Sustainable Chemistry and Engineering, 2022, 10, 11016-11029.	6.7	9
3126	Câ^'H Activation Based Functionalization of Furfural Derivatives. European Journal of Organic Chemistry, 2022, 2022, .	2.4	8
3127	Acrylic Nanocomposites Modified by Biobased Itaconates: Mechanical Properties, Oil Resistance, and Heat Resistance. Industrial & Engineering Chemistry Research, 2022, 61, 13168-13176.	3.7	1
3128	Cooperative Surface Passivation and Hierarchical Structuring of Zeolite Beta Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
3129	Cooperative Surface Passivation and Hierarchical Structuring of Zeolite Beta Catalysts. Angewandte Chemie, 0, , .	2.0	1
3130	Cesium silicotungstate catalyzed solvent-free self-condensation of levulinic acid and its product identification. Biomass Conversion and Biorefinery, 0, , .	4.6	1
3131	Ag substituted <scp> LaCoO ₃ </scp> perovskites as precursors for the catalytic hydrogenation of levulinic acid. Journal of Chemical Technology and Biotechnology, 0, , .	3.2	1
3132	Design principle of electrocatalysts for the electrooxidation of organics. CheM, 2022, 8, 2594-2629.	11.7	44
3133	Glycerol valorization: Development of selective protocols for acetals production through tailor-made macroreticular acid resins. Catalysis Today, 2022, , .	4.4	1
3134	Kinetic and mechanistic aspects of furfural degradation in biorefineries. Canadian Journal of Chemical Engineering, 2023, 101, 2033-2049.	1.7	6
3135	Dimethyl carbonate solvent assisted efficient conversion of lignocellulosic biomass to 5-hydroxymethylfurfural and furfural. Renewable Energy, 2022, 197, 237-243.	8.9	15
3136	Highly efficient Cu-based catalysts for selective hydrogenation of furfural: A key role of copper carbide. Renewable Energy, 2022, 197, 69-78.	8.9	8

#	Article	IF	Citations
3137	Combing with redox regulation via quorum-sensing system and fermentation strategies for improving D-pantothenic acid production. Process Biochemistry, 2022, 121, 681-688.	3.7	2
3138	Chemically recyclable polyurethanes based on bio-renewable Î³-butyrolactone: From thermoplastics to elastomers. Polymer Degradation and Stability, 2022, 204, 110116.	5.8	8
3139	Valorization of dairy by-products: Optimized synthesis of 5-hydroxymethylfurfural and levulinic acid from lactose and whey. Journal of Environmental Chemical Engineering, 2022, 10, 108413.	6.7	2
3140	Kluyveromyces marxianus as a microbial cell factory for lignocellulosic biomass valorisation. Biotechnology Advances, 2022, 60, 108027.	11.7	22
3141	Microwave-assisted synthesis of glycerol carbonate by transesterification of glycerol using Mangifera indica peel calcined ash as catalyst. Fuel, 2022, 330, 125511.	6.4	20
3142	Experimental study and kinetic modeling of continuous flow conversion of fructose to 5-(chloromethyl)furfural using micro- and millistructured coiled flow inverter. Chemical Engineering Journal, 2022, 450, 138243.	12.7	4
3143	Modular synthesis of 2-furyl carbinols from 3-benzyldimethylsilylfurfural platforms relying on oxygen-assisted Câ€"Si bond functionalization. Beilstein Journal of Organic Chemistry, 0, 18, 1256-1263.	2.2	1
3144	A comparative study of the activity and stability of SO42â^'/MxOy (Mâ€‰=â€‰Zr, Sn, Ti) for dehydration of sorbitol and glucose. Research on Chemical Intermediates, 2022, 48, 4693-4709.	2.7	5
3145	Fumaric acid: fermentative production, applications and future perspectives. ChemistrySelect, 2024, 9, 143-168.	1.5	0
3146	The catalytic hydrogenation of furfural to 2-methylfuran over the Mg-Al oxides supported Co-Ni bimetallic catalysts. Molecular Catalysis, 2022, 531, 112651.	2.0	2
3147	Efficient conversion of 5-hydroxymethylfurfural to 2,5-dimethylfuran by the rational design of NiZn catalysts. Molecular Catalysis, 2022, 531, 112698.	2.0	5
3148	Monitoring and investigating reactive extraction of (diâ€")carboxylic acids using online FTIR â€" Part II: Reaction equilibria, reaction kinetics and competition within the complex formation between itaconic acid and several amine extractants. Journal of Molecular Liquids, 2022, 366, 120223.	4.9	1
3149	Highly selective catalytic conversion of raw sugar and sugarcane bagasse to lactic acid over YbCl3, ErCl3, and CeCl3 Lewis acid catalysts without alkaline in a hot-compressed water reaction system. Chemical Engineering Research and Design, 2022, 187, 549-569.	5.6	4
3150	Catalytic conversion of agricultural waste biomass into valued chemical using bifunctional heterogeneous catalyst: A sustainable approach. Catalysis Communications, 2022, 171, 106516.	3.3	2
3151	Valorization of waste biomass through fungal technology: Advances, challenges, and prospects. Industrial Crops and Products, 2022, 188, 115608.	5.2	5
3152	Thiol-ene biobased networks: Furan allyl derivatives for green coating applications. Progress in Organic Coatings, 2022, 173, 107203.	3.9	7
3153	Transforming textile wastes into biobased building blocks via enzymatic hydrolysis: A review of key challenges and opportunities. , 2022, 3, 100026.		4
3154	Efficient catalytic transfer hydrogenation of furfural to furfuryl alcohol over Zr-doped ordered mesoporous carbon synthesized by Zr-arbutin coordinated self-assembly. Fuel, 2023, 331, 125834.	6.4	9

#	Article	IF	Citations
3155	Bringing the promises of microreactors and gold catalysis to lignocellulosic biomass valorization: A study on oxidative transformation of furfural. Chemical Engineering Journal, 2023, 452, 138903.	12.7	5
3156	Enhanced sorption of carbonyl groups by zirconium hydroxide modified with polydopamine for highly selective production of alcohols via MPV reduction under mild conditions. Fuel, 2023, 331, 125786.	6.4	10
3157	Liquid phase catalytic transfer hydrogenation of ethyl levulinate to Î³-valerolactone over ZrO₂/SBA-15. Catalysis Science and Technology, 2022, 12, 5611-5619.	4.1	5
3158	Biphasic Dehydration of Sugars to 5-Hydroxymethylfurfural and Furfuralâ€"Multiscale Modeling for Easier Optimization and More Accurate Solvent Selection. Computer Aided Chemical Engineering, 2022, , 685-690.	0.5	0
3159	Efficient Conversion of Furfural to Furfural Amine Over 4ru1co/Ac Catalyst. SSRN Electronic Journal, 0, , .	0.4	0
3160	Direct Conversion of Glucose to 5-Hydroxymethylfurfural Over Niobium Oxide/Phosphate-Carbon Composites Derived from Hydrothermal Carbonization of Cyclodextrins. SSRN Electronic Journal, 0, , .	0.4	0
3161	Short-process synthetic strategies of sustainable isohexide-based polyesters towards higher molecular weight and commercial applicability. Green Chemistry, 0, , .	9.0	4
3162	Biorefinery of galacturonic acid using a biofuel cell as a reactor. Reaction Chemistry and Engineering, 0, , .	3.7	0
3163	Recent developments in electrode materials for the selective upgrade of biomass-derived platform molecules into high-value-added chemicals and fuels. Green Chemistry, 2022, 24, 7818-7868.	9.0	29
3164	Bio-based poly(hexamethylene 2,5-furandicarboxylate-<i>co</i>-2,6-naphthalate) copolyesters: a study of thermal, mechanical, and gas-barrier properties. Soft Matter, 2022, 18, 7631-7641.	2.7	2
3165	Direct conversion of glyceric acid to succinic acid by reductive carbonylation. Green Chemistry, 2022, 24, 7644-7651.	9.0	2
3166	Recent Advances in Monomer Design for Recyclable Polymers. Acta Chimica Sinica, 2022, 80, 1165.	1.4	10
3167	Bio-based 1,4-butanediol and tetrahydrofuran synthesis: perspective. Green Chemistry, 2022, 24, 6450-6466.	9.0	22
3168	Transcriptional Regulation in Key Metabolic Pathways of Actinobacillus Succinogenes in the Presence of Electricity. SSRN Electronic Journal, 0, , .	0.4	0
3169	Catalytic synthesis of bio-sourced organic carbonates and sustainable hybrid materials from CO2. Advances in Catalysis, 2022, , 189-236.	0.2	0
3170	Perspectives and challenges in using bio-based flame retardants. , 2022, , 451-466.		0
3171	Electrochemical deoxygenative reduction of ketones. Chemical Communications, 2022, 58, 11155-11158.	4.1	9
3172	Waste Biomaterials Innovation Markets. , 2022, , 93-118.		0

#	Article	IF	Citations
3173	Waste to Chemicals. , 2022, , 505-524.		0
3174	Ultra-Dilute high-entropy alloy catalyst with core-shell structure for high-active hydrogenation of furfural to furfuryl alcohol at mild temperature. Chemical Engineering Journal, 2023, 452, 139526.	12.7	17
3175	Selective hydrogenation of furfural to furfuryl alcohol over Cu/CeCoOx in aqueous phase. Molecular Catalysis, 2022, 529, 112553.	2.0	2
3176	Implications of CRISPR-Cas9 in Developing Next Generation Biofuel: A Mini-review. Current Protein and Peptide Science, 2022, 23, 574-584.	1.4	9
3177	Biochemical Methane Potential of a Biorefineryâ€™s Process-Wastewater and its Components at Different Concentrations and Temperatures. Fermentation, 2022, 8, 476.	3.0	2
3178	Compatibilization of Polylactide/Poly(ethylene 2,5-furanoate) (PLA/PEF) Blends for Sustainable and Bioderived Packaging. Molecules, 2022, 27, 6371.	3.8	11
3179	Extraction, Isolation, and Purification of Value-Added Chemicals from Lignocellulosic Biomass. Processes, 2022, 10, 1752.	2.8	9
3180	A biorenewable cyclobutane-containing building block synthesized from sorbic acid using photoenergy. IScience, 2022, 25, 105020.	4.1	0
3181	Furfural-Based Polyamides with Tunable Fluorescence Properties via Ugi Multicomponent Polymerization. Macromolecules, 2022, 55, 8857-8865.	4.8	10
3182	A novel one-step synthesis of 1-propanol from hydrogenolysis of glycerol using a Ni-HSiW/Al2O3 catalyst â€“ The impact of H2 pressure on catalyst performance. Catalysis Today, 2023, 407, 2-10.	4.4	3
3183	Exploring New Horizons for Bio-Based Poly(furfuryl alcohol) by Exploiting Functionalities Offered by Side Reactions. ACS Macro Letters, 2022, 11, 1202-1206.	4.8	7
3184	Sustainable Selective Propanol Production via Continuous Flow Conversion of Glycerol over Synergistic Bifunctional Catalysts: An Exploration into Factors Affecting Activity. ChemCatChem, 2022, 14, .	3.7	4
3185	Spray Reactor-Based Terephthalic Acid Production as a Greener Alternative to the Mid-Century Process. , 2022, , 89-122.		0
3186	A straightforward preparation of levulinic esters from biorenewable levulinic acid using methanesulfonic acid supported on silica gel (MSA-SG) as an efficient heterogeneous catalyst. Materials Today: Proceedings, 2023, 76, 18-24.	1.8	2
3187	A Life Cycle Greenhouse Gas Model of a Yellow Poplar Forest Residue Reductive Catalytic Fractionation Biorefinery. Environmental Engineering Science, 2022, 39, 821-833.	1.6	6
3188	Environmental conditions during glycerol bioconversion affect 3â€hydroxypropionic acid bioproduction by <i>Limosilactobacillus reuteri</i><scp>DSM</scp> 17938. Biotechnology Progress, 2023, 39, .	2.6	0
3189	Cesium partially exchanged heteropolyacid salts: efficient solid catalysts to produce bioadditives from the levulinic acid esterification with alkyl alcohols. Reaction Kinetics, Mechanisms and Catalysis, 2022, 135, 3173-3184.	1.7	2
3190	Utilization of Ni as a Non-Noble-Metal Co-catalyst for Ceria-Supported Rhenium Oxide in Combination of Deoxydehydration and Hydrogenation of Vicinal Diols. ACS Catalysis, 2022, 12, 12582-12595.	11.2	5

#	Article	IF	Citations
3191	Solvent Free Upgrading of 5-Hydroxymethylfurfural (HMF) with Levulinic Acid to HMF Levulinate Using Tin Exchanged Tungstophosphoric Acid Supported on K-10 Catalyst. ACS Organic & Inorganic Au, 2023, 3, 27-34.	4.0	5
3192	Ni-nanoparticles decorated CePO4 for the selective hydrogenation of furfural to tetrahydrofurfuryl alcohol. Molecular Catalysis, 2022, 531, 112712.	2.0	5
3193	Mapping out the reaction network of humin formation at the initial stage of fructose dehydration in water. Green Energy and Environment, 2022, , .	8.7	3
3194	Macroalgal biomass as a potential resource for lactic acid fermentation. Chemosphere, 2022, 309, 136694.	8.2	12
3195	Cellulose and lignin as propitious candidates for preparation of hydrogels for pharmaceutical applications. Materials Today Communications, 2022, 33, 104617.	1.9	3
3196	Sorbitol production from a mixture of sugarcane bagasse and cassava pulp hydrolysates using thermotolerant Zymomonas mobilis TISTR548. Industrial Crops and Products, 2022, 188, 115741.	5.2	5
3197	Formation of 5-methylfurfural and 2-acetylfuran from lignocellulosic biomass and by Cr3+-catalyzed dehydration of 6-deoxyhexoses. Carbohydrate Research, 2022, 522, 108672.	2.3	2
3198	Photo-responsive liquid crystalline polymer from renewable furfural derivative of dimethyl 2,5-furandicarboxylate via catalytic carbonylative esterification. Journal of Materials Chemistry C, 0, , .	5.5	0
3199	Porous dendritic BiSn electrocatalysts for hydrogenation of 5-hydroxymethylfurfural. Journal of Materials Chemistry A, 2022, 10, 24006-24017.	10.3	3
3200	Reduced alkaline earth metal (Ca, Sr) substituted LaCoO₃ catalysts for succinic acid conversion. New Journal of Chemistry, 2022, 46, 21181-21189.	2.8	2
3201	Development of a flow process for an easy and fast access to 2-pyrone derivatives. Reaction Chemistry and Engineering, 0, , .	3.7	0
3202	Probing the effects of fructose concentration on the evolution of humins during fructose dehydration. Reaction Chemistry and Engineering, 2022, 8, 175-183.	3.7	4
3203	Biorefineries: An Integrated Approach for Sustainable Energy Production. Clean Energy Production Technologies, 2022, , 185-212.	0.5	3
3205	Kinetics and Mechanisms of Hydrothermal Dehydration of Cyclic 1,2- and 1,4-Diols. Journal of Organic Chemistry, 2022, 87, 14299-14307.	3.2	2
3206	Preparation of bio-based elastomer and its nanocomposites based on dimethyl itaconate with versatile properties. Composites Part B: Engineering, 2023, 248, 110383.	12.0	12
3207	Role of Anions in 5â€Hydroxymethylfurfural Solvation in Ionic Liquids from Molecular Dynamics Simulations. Advanced Theory and Simulations, 2022, 5, .	2.8	2
3208	High Dispersion of Platinum Nanoparticles over Functionalized Zirconia for Effective Transformation of Levulinic Acid to Alkyl Levulinate Biofuel Additives in the Vapor Phase. Journal of Composites Science, 2022, 6, 300.	3.0	6
3209	Paired electrocatalysis in 5-hydroxymethylfurfural valorization. Frontiers in Chemistry, 0, 10, .	3.6	8

#	Article	IF	Citations
3210	Efficient conversion of furfural to furfural amine over 4Ru1Co/AC catalyst. Applied Catalysis A: General, 2022, 647, 118902.	4.3	3
3211	Polymers without Petrochemicals: Sustainable Routes to Conventional Monomers. Chemical Reviews, 2023, 123, 2609-2734.	47.7	53
3212	Synthesis of Poly(Ester-Ether) Polymers via Hydroesterificative Polymerization of Î±,Ï‰-Enol Ethers. Macromolecules, 2022, 55, 9520-9526.	4.8	2
3213	The Role of Nanoparticle Catalysis in the Nylon Production. Catalysts, 2022, 12, 1206.	3.5	1
3214	Selective Oxidation of Biomass Molecules via ZnO Nanoparticles Modified Using Charge Mismatch of the Doped Co ions. Inorganic Chemistry, 2022, 61, 16887-16894.	4.0	1
3215	Recovery of gold from e-waste via food waste byproducts. Nanotechnology, 2023, 34, 065203.	2.6	3
3216	Catalyst Deactivation and Its Mitigation during Catalytic Conversions of Biomass. ACS Catalysis, 2022, 12, 13555-13599.	11.2	17
3217	Unraveling Electroreductive Mechanisms of Biomass-Derived Aldehydes via Tailoring Interfacial Environments. ACS Catalysis, 2022, 12, 14072-14085.	11.2	15
3218	Mesoporous molecular sieves solid superacid as a catalyst for alcoholysis of fructose into methyl levulinate. Biomass and Bioenergy, 2022, 166, 106627.	5.7	2
3219	Lactic acid production by catalytic conversion of glucose: An experimental and techno-economic evaluation. Catalysis Today, 2023, 408, 2-8.	4.4	4
3220	A monolith adsorbent of hyper-crosslinked polymer, graphene oxide composite chitosan cryogel for in-syringe solid phase extraction of furfural derivatives from cellulosic biomass hydrolysate. Microchemical Journal, 2022, 183, 108056.	4.5	1
3221	Synthesis of molybdenum-cobalt nanoparticles decorated on date seed-derived activated carbon for the simultaneous electrochemical hydrogenation and oxidation of furfural into fuels. Fuel Processing Technology, 2022, 238, 107525.	7.2	6
3222	Relay photo/thermal catalysis enables efficient cascade upgrading of sugars to lactic acid: Mechanism study and life cycle assessment. Chemical Engineering Journal, 2023, 452, 139687.	12.7	15
3223	Bioconversion of carbon dioxide to succinate by Citrobacter. Chemical Engineering Journal, 2023, 452, 139668.	12.7	10
3224	Enhanced selective photocatalytic oxidation of a bio-derived platform chemical with vacancy-induced core-shell anatase TiO2 nanoparticles. Applied Catalysis B: Environmental, 2023, 322, 122140.	20.2	6
3225	Glycerine and Glycerol. RSC Green Chemistry, 2022, , 437-467.	0.1	1
3227	Multi-feedstock biorefinery concept: Valorization of winery wastes by engineered yeast. Journal of Environmental Management, 2023, 326, 116623.	7.8	6
3228	One-pot multi-step synthesis of gamma-valerolactone from furfuryl alcohol: Microwave vs continuous flow reaction studies. Fuel, 2023, 334, 126439.	6.4	3

#	Article	IF	Citations
3229	Efficient continuous dehydration of fructose to 5-hydroxymethylfurfural in ternary solvent system. Fuel, 2023, 334, 126632.	6.4	11
3230	Effect of Precursor and Temperature Annealing on the Catalytic Activity of Intermetallic Ni3Sn2 Alloy. Bulletin of Chemical Reaction Engineering and Catalysis, 2022, 17, 743-754.	1.1	1
3231	Use of Microorganisms as Nutritional and Functional Feedstuffs for Nursery Pigs and Broilers. Animals, 2022, 12, 3141.	2.3	3
3232	Achieving Site-Selective Câ€"O Bond Reduction for High-Value Cellulosic Valorization. ACS Catalysis, 0, , 14220-14226.	11.2	0
3233	Valorization of hexoses into 5-hydroxymethylfurfural and levulinic acid in acidic seawater under microwave hydrothermal conditions. Environmental Technology (United Kingdom), 0, , 1-10.	2.2	0
3234	Highly Efficient Conversion of Carbohydrates into Formic Acid with a Heterogeneous MgO Catalyst at Near-Ambient Temperatures. ACS Sustainable Chemistry and Engineering, 2022, 10, 15423-15436.	6.7	6
3235	Biorefineries: Achievements and challenges for a bio-based economy. Frontiers in Chemistry, 0, 10, .	3.6	19
3236	Novel chromatographic purification of succinic acid from whey fermentation broth by anionic exchange resins. Bioprocess and Biosystems Engineering, 0, , .	3.4	0
3237	Recent Catalytic Advances on the Sustainable Production of Primary Furanic Amines from the Oneâ€Pot Reductive Amination of 5â€Hydroxymethylfurfural. ChemSusChem, 2023, 16, .	6.8	11
3238	A Green Synthesis of 5,5â€²â€[Oxybis(methylene)]bisâ€2â€Furfural: from Byâ€Product to Attractive Bioâ€Based Platform Chemical. Advanced Sustainable Systems, 2022, 6, .	5.3	6
3239	Carbohydrate-based biorefineries for the production of 5-hydroxymethylfurfural and 2,5-furandicarboxylic acid and their separation and purification methods. Biomass Conversion and Biorefinery, 0, , .	4.6	1
3240	Global Cellular Metabolic Rewiring Adapts Corynebacterium glutamicum to Efficient Nonnatural Xylose Utilization. Applied and Environmental Microbiology, 2022, 88, .	3.1	3
3241	Precursor prioritization for p-cymene production through synergistic integration of biology and chemistry. , 2022, 15, .		1
3242	Non-targeted screening and multivariate analysis of waste stream biomass conversion products. Biomass Conversion and Biorefinery, 0, , .	4.6	0
3243	Acidâ€"Base Property of Tetragonal YNbO₄ with Phosphate Groups and Its Catalysis for the Dehydration of Glucose to 5â€Hydroxymethylfurfural. Small Structures, 2023, 4, .	12.0	4
3244	Nature-derived Ultrahigh-performance Aromatic Bioplastics. Science and Technology, 2022, 60, 739-755.	0.2	0
3245	Industrial implementation of chemical biomass conversion. Current Opinion in Green and Sustainable Chemistry, 2023, 39, 100715.	5.9	11
3246	Solubility study and thermodynamic modelling of succinic acid and fumaric acid in bio-based solvents. Journal of Molecular Liquids, 2023, 369, 120836.	4.9	2

#	Article	IF	Citations
3247	A furan-derived epoxy thermoset with inherent anti-flammability, degradability, and raw material recycling. Materials Today Chemistry, 2023, 27, 101315.	3.5	7
3248	Recent advances in the development of green furan ring-containing polymeric materials based on renewable plant biomass. Chemical Society Reviews, 2023, 52, 836-862.	38.1	18
3249	One-pot reductive etherification of 5-hydroxymethylfurfural into biofuel (2,5-bis(propoxymethyl)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 891-899.	2.8	3
3250	Biocatalytic gateway to convert glycerol into 3-hydroxypropionic acid in waste-based biorefineries: Fundamentals, limitations, and potential research strategies. Biotechnology Advances, 2023, 62, 108075.	11.7	9
3251	The weak interaction between polar aprotic solvent and saline water enables efficient production of furans from lignocellulosic biomass. Green Chemistry, 0, , .	9.0	5
3252	Upgrading furanic platforms to Î±-enaminones: tunable continuous flow hydrogenation of bio-based cyclopentenones. Reaction Chemistry and Engineering, 2023, 8, 482-489.	3.7	3
3253	Thermal hazard evaluation for Î³-valerolactone production by using formic acid as hydrogen donor. Journal of Loss Prevention in the Process Industries, 2023, 81, 104951.	3.3	1
3254	Carbohydrate polymers-modified carbon allotropes for enhanced anticorrosive activity: State-of-arts and perspective. Chemical Engineering Journal Advances, 2023, 13, 100428.	5.2	2
3255	Bread waste â€“ A potential feedstock for sustainable circular biorefineries. Bioresource Technology, 2023, 369, 128449.	9.6	14
3256	Recent progress on sugarcane-bagasse based lactic acid production: Technical advancements, potential and limitations. Industrial Crops and Products, 2023, 193, 116132.	5.2	10
3257	A sustainable polymer and coating system based on renewable raw materials. Green Chemistry, 2022, 24, 9772-9780.	9.0	4
3258	Spatial charge separation on the (110)/(102) facets of cocatalyst-free ZnIn₂S₄for the selective conversion of 5-hydroxymethylfurfural to 2,5-diformylfuran. Green Chemistry, 2023, 25, 692-699.	9.0	13
3259	Chemical transformations of 5-hydroxymethylfurfural into highly added value products: present and future. Green Chemistry, 2023, 25, 871-892.	9.0	51
3260	Total hydrogenation of hydroxymethylfurfural via hydrothermally stable Ni catalysts and the mechanistic study. Chemical Engineering Journal, 2023, 455, 140536.	12.7	6
3261	A perspective on automated advanced continuous flow manufacturing units for the upgrading of biobased chemicals toward pharmaceuticals. Journal of Flow Chemistry, 2023, 13, 77-90.	1.9	1
3262	Evaluation of a Prototype for Electrochemical pH-Shift Crystallization of Succinic Acid. Materials, 2022, 15, 8412.	2.9	2
3263	Synthesis of <i>N</i>-Substituted 3-Hydroxypyridinium Salts from Bioderived 5-Hydroxymethylfurfural in Water. ACS Sustainable Chemistry and Engineering, 2022, 10, 15642-15647.	6.7	2
3265	Solubility of Biocompounds 2,5-Furandicarboxylic Acid and 5-Formylfuran-2-Carboxylic Acid in Binary Solvent Mixtures of Water and 1,4-Dioxane. Processes, 2022, 10, 2480.	2.8	5

#	Article	IF	Citations
3266	Effective Halogen-Free Flame-Retardant Additives for Crosslinked Rigid Polyisocyanurate Foams: Comparison of Chemical Structures. Materials, 2023, 16, 172.	2.9	0
3267	Copper-Catalyzed Asymmetric Sulfonylative Desymmetrization of Glycerol. Molecules, 2022, 27, 9025.	3.8	1
3268	Solid Acid Catalyst Derived from Cotton for Conversion of Xylose and Corn Cob to Furfural. ChemistrySelect, 2022, 7, .	1.5	2
3270	Selective Câ€“O Hydrogenolysis of Terminal Câ€“OH Bond in 1,2-Diols over Rutile-Titania-Supported Iridium-Iron Catalysts. ACS Catalysis, 2022, 12, 15431-15450.	11.2	15
3271	Advances in Selective Electrochemical Oxidation of 5â€Hydroxymethylfurfural to Produce Highâ€Value Chemicals. Advanced Science, 2023, 10, .	11.2	26
3272	Continuous flow (Sulfated) Zirconia Catalysed Cascade Conversion of Levulinic Acid to Î³â€Valerolactone. ChemCatChem, 2023, 15, .	3.7	1
3273	Photocatalysis of Cr- and Fe-Doped CeO2 Nanoparticles to Selective Oxidation of 5-Hydroxymethylfurfural. Nanomaterials, 2023, 13, 44.	4.1	3
3274	Nitrogen-doped carbon for selective pseudo-metal-free hydrodeoxygenation of 5-hydroxymethylfurfural to 2,5-dimethylfuran: Importance of trace iron impurity. Journal of Catalysis, 2023, 417, 396-407.	6.2	7
3275	Rapid Ringâ€Opening Polymerization of Î³â€Butyrolactone toward Highâ€Molecularâ€Weight Poly (Î³â€butyrolactone) by an Organophosphazene Base and Bisurea Binary Catalyst. Chemistry - an Asian Journal, 2023, 18, .	3.3	3
3276	Isolated Hfâ€Isomorphously Substituted Zeolites for Oneâ€Pot HMF Synthesis from Glucose. Advanced Sustainable Systems, 0, , 2200403.	5.3	0
3277	Hydroxymethylfurfural (HMF) Synthesis from Starch with Zeolite Based Catalysts. Starch/Staerke, 2023, 75, .	2.1	1
3278	One-Pot Method for the Synthesis of 2,5-Furandicarboxylic Acid from Fructose: <i>In Situ</i> Oxidation of 5-Hydroxymethylfurfural and 5-Acetoxymethylfurfural over Co/Mn/Br Catalysts in Acetic Acid. Industrial & Engineering Chemistry Research, 2023, 62, 291-301.	3.7	4
3280	From PEF to PBF: What difference does the longer alkyl chain make a computational spectroscopy study of poly(butylene 2,5-furandicarboxylate). Frontiers in Chemistry, 0, 10, .	3.6	4
3281	Metabolic engineering of Corynebacterium glutamicum for acetate-based itaconic acid production. , 2022, 15, .		5
3282	Review of intrinsically recyclable biobased epoxy thermosets enabled by dynamic chemical bonds. Polymer-Plastics Technology and Materials, 2022, 61, 1740-1782.	1.3	2
3283	Hydrolysis of lignocellulose to succinic acid: a review of treatment methods and succinic acid applications. , 2023, 16, .		13
3284	Chemical-free production of multiple high-value bioproducts from metabolically engineered transgenic sugarcane â€˜oilcaneâ€™ bagasse and their recovery using nanofiltration. Bioresource Technology, 2023, 371, 128630.	9.6	3
3285	Synthesis, Thermal and Mechanical Properties of Fully Biobased Poly (hexamethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6	4.5	0

#	Article	IF	Citations
3286	Multifeedstock and Multiproduct Process Design Using Neural Network Surrogate Flexibility Constraints. Industrial & Engineering Chemistry Research, 2023, 62, 2067-2079.	3.7	5
3287	Converting textile waste into value-added chemicals: An integrated bio-refinery process. Environmental Science and Ecotechnology, 2023, 15, 100238.	13.5	6
3288	Rapid access to molecular complexity from bioderived 5-HMF derivatives <i>via</i> cascade cycloadditions. Green Chemistry, 0, , .	9.0	2
3289	Livestock Manure Valorization to Biochemicalâ€™s and Energy. , 2023, , 211-239.		1
3290	Combining Electro-, Photo-, and Biocatalysis for One-Pot Selective Conversion of Furfural into Value-Added C4 Chemicals. ACS Catalysis, 2023, 13, 1371-1380.	11.2	11
3291	Hydrogenation of Carboxylic Acids, Esters, and Related Compounds over Heterogeneous Catalysts: A Step toward Sustainable and Carbon-Neutral Processes. Chemical Reviews, 2023, 123, 1103-1165.	47.7	27
3292	Efficient conversion of biomass derivatives to furfural with a novel carbon-based solid acid catalyst. Catalysis Communications, 2023, 175, 106608.	3.3	3
3293	Anionic defects engineering of NiCo2O4 for 5-hydroxymethylfurfural electrooxidation. Chemical Engineering Journal, 2023, 457, 141344.	12.7	9
3294	Electrochemical Hydrodimerization of Furfural in Organic Media as an Efficient Route to Jet Fuel Precursor. ChemElectroChem, 2023, 10, .	3.4	2
3295	Selective photoelectrocatalytic transformations of organic compounds. , 2023, , 361-420.		1
3296	Opportunities and challenges for the production of fuels and chemicals: materials and processes for biorefineries. , 2023, , 551-620.		2
3297	Accelerated H₂ activation over Pt/M-ZrO₂ for the reductive amination of levulinic acid esters under benign conditions. Catalysis Science and Technology, 2023, 13, 1666-1676.	4.1	5
3298	Dynamic materials derived from biobased furans: towards the â€˜sleeping giantâ€™ awakening. Mendeleev Communications, 2023, 33, 1-8.	1.6	1
3299	Selective hydrogenation reactions of 5-hydroxymethylfurfural over Cu and Ni catalysts in water: Effect of Cu and Ni combination and the reagent purity. Catalysis Today, 2023, 423, 114021.	4.4	2
3300	Solid-state fermentation for the production of microbial cellulases. , 2023, , 59-88.		0
3301	Highly Selective Transformation of Biomass Derivatives to Valuable Chemicals by Singleâ€Atom Photocatalyst Ni/TiO₂. Advanced Materials, 2023, 35, .	21.0	23
3302	Flow-through reductive catalytic fractionation of beech wood sawdust. , 2023, 1, 459-469.		3
3303	Engineering Microorganisms to Produce Bio-Based Monomers: Progress and Challenges. Fermentation, 2023, 9, 137.	3.0	4

#	Article	IF	Citations
3304	Catalytic transformations for agro-waste conversion to 5-hydroxymethylfurfural and furfural: Chemistry and scale-up development. Green Chemistry, 2023, 25, 849-870.	9.0	8
3305	Chemicals from Biomass. , 2012, , 279-324.		0
3306	Directed Preparation of Biomass-based Polyester Monomers by Catalytic Conversion. Acta Chimica Sinica, 2023, 81, 175.	1.4	0
3307	Cesium Heteropolyacid Salts: Synthesis, Characterization and Activity of the Solid and Versatile Heterogeneous Catalysts. Chemistry, 2023, 5, 662-690.	2.2	4
3308	Towards stable nickel catalysts for selective hydrogenation of biomass-based BHMF into THFDM. Journal of Environmental Chemical Engineering, 2023, 11, 109461.	6.7	2
3309	Efficient reduction of 5-hydroxymethylfurfural to 2,5-bis(hydroxymethyl)furan by Bacillus subtilis HA70 whole cells. Molecular Catalysis, 2023, 542, 113122.	2.0	2
3310	Towards the sustainable conversion of corn stover into bioenergy and bioproducts through biochemical route: Technical, economic and strategic perspectives. Journal of Cleaner Production, 2023, 400, 136699.	9.3	13
3311	Sustainable isosorbide production by a neat one-pot MW-assisted catalytic glucose conversion. Catalysis Today, 2023, 418, 114086.	4.4	3
3312	Sulfosuccinic acid-based metal-center catalysts for the synthesis of HMF from carbohydrates. Catalysis Today, 2023, 418, 114127.	4.4	1
3313	Integrated fermentative production and downstream processing of L-malic acid by Aspergillus wentii using cassava peel waste. Bioresource Technology, 2023, 377, 128946.	9.6	3
3314	Transcriptional regulation in key metabolic pathways of Actinobacillus succinogenes in the presence of electricity. Bioelectrochemistry, 2023, 151, 108376.	4.6	0
3315	Selective oxidation of 5-HMF to DFF over alkali promoted Mn nanocomposite. Applied Catalysis A: General, 2023, 659, 119180.	4.3	2
3316	Study on the mechanism of acid modified H-Beta zeolite acidic sites on the catalytic pyrolysis of Kraft lignin. Chemical Engineering Journal, 2023, 462, 142029.	12.7	10
3317	Construction of a stable biochar-supported amorphous aluminum solid acid catalyst with BrÃ¸nstedâ€"Lewis dual acid sites for efficient conversion of cellulose. International Journal of Biological Macromolecules, 2023, 237, 124196.	7.5	4
3318	Ultrathin membranes composed of branched polyethylenimine and poly[(o-cresyl glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 187 Td Technology, 2023, 316, 123738.	7.9	1
3319	Selective electroreduction of levulinic acid by controlling the crystalline structure of PbO on electrodes. Applied Surface Science, 2023, 616, 156464.	6.1	4
3320	Ocean Resources for the Production of Renewable Chemicals and Materials. , 2014, , 443-458.		1
3321	High-Yield Synthesis of 1-Hydroxyhexane-2,5-dione via Hydrogenation/Hydrolysis of 5-Hydroxymethyl-furfural in Ionic Liquid-Assisted Multi-Phase Systems. ACS Sustainable Chemistry and Engineering, 2023, 11, 2520-2530.	6.7	1

#	Article	IF	Citations
3322	Big data mining, rational modification, and ancestral sequence reconstruction inferred multiple xylose isomerases for biorefinery. Science Advances, 2023, 9, .	10.3	17
3323	Biosourced<i>Janus</i>Molecules as Silica Coupling Agents in Elastomer Composites for Tires with Lower Environmental Impact. ACS Sustainable Chemistry and Engineering, 2023, 11, 2713-2726.	6.7	3
3324	Synthesis of Hollow Mesoporous Silica Nanospheroids with O/W Emulsion and Al(III) Incorporation and Its Catalytic Activity for the Synthesis of 5-HMF from Carbohydrates. Catalysts, 2023, 13, 354.	3.5	4
3326	Fully Bioâ€based Poly(ketalâ€ester)s by Ringâ€opening Polymerization of a Bicylcic Lactone from Glycerol and Levulinic Acid. Chemistry - an Asian Journal, 2023, 18, .	3.3	1
3327	Applications of ionic liquids for the biochemical transformation of lignocellulosic biomass into biofuels and biochemicals: A critical review. Biochemical Engineering Journal, 2023, 193, 108850.	3.6	13
3328	Converting Nonâ€strained Î³â€Valerolactone and Derivatives into Sustainable Polythioesters via Isomerizationâ€driven Cationic Ringâ€Opening Polymerization of Thionolactone Intermediate. Angewandte Chemie - International Edition, 2023, 62, .	13.8	8
3329	Converting Nonâ€strained Î³â€Valerolactone and Derivatives into Sustainable Polythioesters via Isomerizationâ€driven Cationic Ringâ€Opening Polymerization of Thionolactone Intermediate. Angewandte Chemie, 2023, 135, .	2.0	3
3330	Disordered HMWW Zeolite Nanosheets Catalyzing Fructose to 5-Hydroxymethylfurfural. Catalysis Letters, 2024, 154, 181-190.	2.6	1
3331	Development and implementation of a case study assessment using biobased 5-hydroxymethylfurfural to teach redox reactions in undergraduate organic courses. Green Chemistry Letters and Reviews, 2023, 16, .	4.7	0
3332	The Effect of Sulfate Electrolytes on the Liquidâ€"Liquid Equilibrium of 2-MTHF/Water/5-HMF: Experimental Study and Thermodynamic Modeling. Journal of Chemical & Engineering Data, 2023, 68, 1397-1410.	1.9	4
3333	Production of 3-Hydroxypropionic Acid from Renewable Substrates by Metabolically Engineered Microorganisms: A Review. Molecules, 2023, 28, 1888.	3.8	5
3334	Photopolymerization of furan-based monomers: Exploiting UV-light for a new age of green polymers. Reactive and Functional Polymers, 2023, 185, 105540.	4.1	8
3335	Effective Comprehensive Utilization Strategy for Upgrading Red Seaweed via Chemocatalysis and a Newly Isolated <i>Pseudomonas rhodesiae</i> in Tandem. ACS Sustainable Chemistry and Engineering, 2023, 11, 3664-3672.	6.7	3
3336	Electrocatalytic dual hydrogenation of organic substrates with a Faradaic efficiency approaching 200%. Nature Catalysis, 2023, 6, 224-233.	34.4	26
3337	Efficient production of 5-hydroxymethylfurfural from fructose catalyzed by acidic ion-functionalized porous carbon solid acid. Research on Chemical Intermediates, 2023, 49, 1369-1386.	2.7	4
3338	Coordination of sorbitol to Ga(OTf)₃ in the liquid phase: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2023, 25, 8507-8514.	2.8	0
3339	Highly Selective Production of Renewable 1,3-Pentadiene from 1,4-Pentanediol over an Acidâ€"Base (Kâ€"Ce/ZrSi) Catalyst by Adjusting the Parallel-Reaction Pathway. Industrial & Engineering Chemistry Research, 2023, 62, 4164-4174.	3.7	1
3340	Synthesis, Properties, and Biodegradability of Novel Sequence-Controlled Copolyesters Composed of Glycolic Acid, Dicarboxylic Acids, and C3 or C4 Diols. Polymers, 2023, 15, 1155.	4.5	0

#	Article	IF	Citations
3341	Bioproduction of isoprene and isoprenoids. , 2023, , 265-277.		1
3342	Applications of itaconic acid in biofuel production. , 2023, , 63-78.		0
3343	A Coverage Self-Consistent Microkinetic Model for Vapor-Phase Formic Acid Decomposition over Pd/C Catalysts. ACS Catalysis, 2023, 13, 3655-3667.	11.2	5
3344	Gold(III) Chloride-Mediated Transformation of Furfural to the trans-N,N-4,5-Diaminocyclopent-2-enones in the Presence of Anilines. Chemistry, 2023, 5, 393-405.	2.2	0
3345	Facile synthesis of the atomically dispersed hydrotalcite oxide supported copper catalysts for the selective hydrogenation of 5â€“hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan. Applied Catalysis B: Environmental, 2023, 329, 122547.	20.2	5
3346	State-of-the-Art Technologies for Production of Biochemicals from Lignocellulosic Biomass. , 2023, , 111-150.		0
3347	A bio-based click reaction leading to the dihydropyridazinone platform for nitrogen-containing scaffolds. Green Chemistry, 2023, 25, 2672-2680.	9.0	2
3348	A hybrid system bases on silica-alumina and Keggin heteropolyacids as catalyst in the suitable 2-(2-furyl)-chromones and chromanones synthesis. Ciencia En Desarrollo, 2022, 13, 93-102.	0.1	0
3349	Three-Dimensional Characterization of Polyurethane Foams Based on Biopolyols. Materials, 2023, 16, 2118.	2.9	0
3350	Recent Advances in the Efficient Synthesis of Useful Amines from Biomass-Based Furan Compounds and Their Derivatives over Heterogeneous Catalysts. Catalysts, 2023, 13, 528.	3.5	1
3351	Interfacial Engineering of Ni/Ni_{0.2}Mo_{0.8}N Heterostructured Nanorods Realizes Efficient 5-Hydroxymethylfurfural Electrooxidation and Hydrogen Evolution. Langmuir, 2023, 39, 3762-3769.	3.5	4
3352	Catalytic Conversion of Sugars into Lactic Acid via a RuOx/MoS2 Catalyst. Catalysts, 2023, 13, 545.	3.5	3
3354	Ni-Mg/Al Mixed Oxides Prepared from Layered Double Hydroxides as Catalysts for the Conversion of Furfural to Tetrahydrofurfuryl Alcohol. Chemistry, 2023, 5, 571-588.	2.2	1
3355	The solvent-free hydrogenation of butyl levulinate to Î³-valerolactone and 1,4-pentanediol over skeletal Cu-Al-Zn catalyst. Molecular Catalysis, 2023, 540, 113046.	2.0	1
3356	A Xylosideâ€Based Ligand to Stabilize Gold Nanoparticles: Preparation and Application. European Journal of Inorganic Chemistry, 2023, 26, .	2.0	0
3357	Progress in the biosynthesis of bio-based PET and PEF polyester monomers. Green Chemistry, 2023, 25, 5836-5857.	9.0	12
3358	Efficient synthesis of furfurylamine from biomass via a hybrid strategy in an EaCl:Glyâ€“water medium. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	0
3359	Conversion of Biomass-Derived Levulinic Acid into Î³-Valerolactone Using Methanesulfonic Acid: An Optimization Study Using Response Surface Methodology. Fermentation, 2023, 9, 288.	3.0	1

#	Article	IF	Citations
3360	Efficient synthesis of 5-hydroxymethylfurfural by MCM-41 modified with multiple acid sites. Sustainable Energy and Fuels, 2023, 7, 2003-2011.	4.9	1
3361	Killing Two Birds with One Stone: Upgrading Organic Compounds via Electrooxidation in Electricity-Input Mode and Electricity-Output Mode. Materials, 2023, 16, 2500.	2.9	0
3362	Quantification of the Microwave Effect in the Synthesis of 5-Hydroxymethylfurfural over Sulfonated MIL-101(Cr). Catalysts, 2023, 13, 622.	3.5	1
3364	Organocatalytic synthesis of sugarâ€derived polyesters via ringâ€opening alternating copolymerization of anhydrosugar oxetane and anhydrides. Journal of Polymer Science, 2023, 61, 1430-1438.	3.8	0
3365	Enhanced 1,3-propanediol production with high yield from glycerol through a novel Klebsiellaâ€“Shewanella co-culture. , 2023, 16, .		1
3366	Chemical conversion of lignocellulosic biomass into platform chemicals for fuels and polymers. Advances in Bioenergy, 2023, , 1-91.	1.3	0
3367	Synthesis of renewable Câ€“C cyclic oxygenated compounds dedicated for high-density biofuels from biomass-derived cyclopentanone. New Journal of Chemistry, 2023, 47, 8111-8121.	2.8	1
3368	Synthesis of Biobased Polyamide PA5T and Its Furan Copolymer and Study on Nonâ€‘isothermal Crystallization Kinetics. Journal of Polymers and the Environment, 2023, 31, 3585-3603.	5.0	1
3369	Catalytic Biorefining of Natural Oils to Basic Olefinic Building Blocks of Proven Chemical Valorization Schemes. Angewandte Chemie, 2023, 135, .	2.0	0
3370	Catalytic Biorefining of Natural Oils to Basic Olefinic Building Blocks of Proven Chemical Valorization Schemes. Angewandte Chemie - International Edition, 2023, 62, .	13.8	0
3371	Recent progress of Cu-based electrocatalysts for upgrading biomass-derived furanic compounds. Catalysis Science and Technology, 2023, 13, 2899-2921.	4.1	4
3372	Recent Progress in Metalâ€Catalyzed Selective Oxidation of 5â€Hydroxymethylfurfural into Furanâ€Based Valueâ€Added Chemicals. Chemical Record, 2023, 23, .	5.8	3
3373	Development of cellulase-producing industrial Saccharomyces cerevisiae strains for consolidated bioprocessing. , 2023, , 1-24.		0
3374	Statistical approach for optimization of levulinic acid production from orange peel as agricultural waste. Biofuels, Bioproducts and Biorefining, 0, , .	3.7	0
3375	Aproveitamento da Biomassa LignocelulÃ³sica para ProduÃ§Ã£o de Metil levulinato: mapeamento tecnolÃ³gico de patentes. Cadernos De ProspecÃ§Ã£o, 2023, 16, 726-744.	0.1	0
3376	Facile preparation of biodegradable poly(Î³-butyrolactone) <i>via</i> base-assisted ring-opening polymerization. Green Chemistry, 2023, 25, 3624-3632.	9.0	1
3377	Effects of Different Isomers of Thiophenedicarboxylic Acids on the Synthesis and Properties of Thiophene-Based Sustainable Polyesters. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	3
3378	Efficient Conversion of Biomass-Derived Saccharides to Levulinic Acid Using Silicotungstic Acid. Energy & Fuels, 2023, 37, 6642-6650.	5.1	2

#	Article	IF	Citations
3380	PtFeCoNiCu High-Entropy Alloy Catalyst for Aqueous-Phase Hydrogenation of Maleic Anhydride. ACS Applied Materials & Interfaces, 2023, 15, 23276-23285.	8.0	4
3381	Opportunities and Challenges of Establishing a Regional Bioâ€based Polylactic Acid Supply Chain. Global Challenges, 2023, 7, .	3.6	3
3382	Bio-based polymers synthesized from furan derivatives. , 2023, , 295-345.		0
3383	Selective aerobic-oxidation of glycerol to lactic acid over ruthenium-vanadium bimetallic catalysts. Journal of Industrial and Engineering Chemistry, 2023, 124, 224-231.	5.8	2
3384	Covalent Adaptable Polymethacrylate Networks by Hydrazide Crosslinking Via Isosorbide Levulinate Side Groups. ACS Sustainable Chemistry and Engineering, 2023, 11, 8294-8307.	6.7	6
3385	Dehydration mechanism of fructose to 5-hydroxymethylfurfural catalyzed by functionalized ionic liquids: a density functional theory study. New Journal of Chemistry, 2023, 47, 11525-11532.	2.8	3
3386	Biomass as a Source of Energy, Fuels and Chemicals. , 2021, , 589-741.		0
3387	Feedstocks and Renewable Resources. , 2017, , 29-73.		5
3388	Policies of biofuel for commercialization. , 2023, , 1-11.		0
3390	New Insights on the Kinetics of Persulfateâ€Initiated Itaconic Acid Freeâ€Radical Polymerization. Macromolecular Reaction Engineering, 0, , .	1.5	0
3391	Effective electro-oxidation of hydroxymethylfurfural using the electrografted immobilized aminoxyl radical. Energy Advances, 2023, 2, 877-885.	3.3	2
3392	Organocatalytic Upgrading of Biomass Derived Building Blocks. European Journal of Organic Chemistry, 2023, 26, .	2.4	1
3393	A perspective on catalytic production of olefinic compounds from biomass. , 2023, 1, 814-837.		5
3394	Perspectives of HMF and LA from microalgal biomass. Algal Research, 2023, 72, 103133.	4.6	1
3395	Electrochemical oxidation of 5-hydroxymethylfurfural over a molybdenum sulfide modified nickel-based catalyst. Materials Advances, 2023, 4, 2449-2456.	5.4	0
3396	New Random Aromatic/Aliphatic Copolymers of 2,5-Furandicarboxylic and Camphoric Acids with Tunable Mechanical Properties and Exceptional Gas Barrier Capability for Sustainable Mono-Layered Food Packaging. Molecules, 2023, 28, 4056.	3.8	2
3397	Carbon Nanotubes Deposited on Mordenite Zeolite/NiAl-Layered Double Hydroxide Composites as Electrocatalysts for 2,5-Furandicarboxylic Acid Production from 5-Hydroxymethylfurfural. ACS Applied Nano Materials, 2023, 6, 8784-8794.	5.0	0
3398	Highly Flexible Poly(1,12-dodecylene 5,5â€²-isopropylidene-bis(ethyl 2-furoate)): A Promising Biobased Polyester Derived from a Renewable Cost-Effective Bisfuranic Precursor and a Long-Chain Aliphatic Spacer. Molecules, 2023, 28, 4124.	3.8	1

#	Article	IF	Citations
3399	Bioethanol, internal combustion engines and the development of zero-waste biorefineries: an approach towards sustainable motor spirit. , 0, , .		0
3400	Efficient conversion of chitin into 5-hydroxymethylfurfural <i>via</i> a simple formylation step under mild conditions. Green Chemistry, 2023, 25, 4781-4792.	9.0	4
3401	Covalent adaptable networks from renewable resources: Crosslinked polymers for a sustainable future. CheM, 2023, 9, 2771-2816.	11.7	4
3402	Catalytic Hydrogenation of Hemicellulosic Sugars: Reaction Kinetics and Influence of Sugar Structure on Reaction Rate**. ChemCatChem, 2023, 15, .	3.7	3
3403	Sulfonic acid functionalized Î² zeolite as efficient bifunctional solid acid catalysts for the synthesis of 5-hydroxymethylfurfural from cellulose. International Journal of Biological Macromolecules, 2023, 242, 125037.	7.5	7
3404	Efficient Conversion of Methyl Lactate to Methyl Acrylate over Cesium-Modified Al-Rich Beta Zeolites. ACS Sustainable Chemistry and Engineering, 2023, 11, 8624-8632.	6.7	1
3405	Improving yields by switching central metal ions in porphyrazine-catalyzed oxidation of glucose into value-added organic acids with SnO2 in aqueous solution. Frontiers in Chemistry, 0, 11, .	3.6	0
3406	Removal of 5-hydroxymethylfurfural from brewer's spent grains hydrolysates obtained by subcritical water hydrolysis: An approach using liquid-liquid extraction. Journal of Supercritical Fluids, 2023, 201, 106004.	3.2	0
3407	Structural basis of a bi-functional malonyl-CoA reductase (MCR) from the photosynthetic green non-sulfur bacterium <i>Roseiflexus castenholzii</i>. MBio, 0, , .	4.1	0
3408	Highly active NiFe LDH anchoring on cobalt carbonate hydroxide for efficient electrocatalytic 5-hydroxymethylfurfural oxidation towards 2,5-furandicarboxylic acid. New Journal of Chemistry, 2023, 47, 14282-14288.	2.8	1
3409	Rechargeable Biomass Battery for Electricity Storage/generation and Concurrent Valuable Chemicals Production. Angewandte Chemie, 2023, 135, .	2.0	0
3410	Lactic acid and biomethane production from bread waste: a techno-economic and profitability analysis using pinch technology. Sustainable Energy and Fuels, 2023, 7, 3034-3046.	4.9	4
3411	Rechargeable Biomass Battery for Electricity Storage/generation and Concurrent Valuable Chemicals Production. Angewandte Chemie - International Edition, 2023, 62, .	13.8	3
3412	In operando simultaneous ATR-IR/Raman spectroscopic investigation of the catalytic activity of supported Pt, Ru, and Pd catalysts in H/D exchange reactions between H2 and D2O. Molecular Catalysis, 2023, 547, 113279.	2.0	0
3413	Efficient Production of Valuable Aromatic <i>N</i>-Heterocycles from Bio-Polyols by Heterogeneous Catalysis via Controlling Unstable Intermediate Conversion. ACS Sustainable Chemistry and Engineering, 2023, 11, 9372-9381.	6.7	1
3414	Salen-like Chromium and Aluminum Complexes as Catalysts in the Copolymerization of Epoxides with Cyclic Anhydrides for the Synthesis of Polyesters. International Journal of Molecular Sciences, 2023, 24, 10052.	4.1	0
3415	Insights into the interaction between bis(aryloxide)alkylaluminum and N-heterocyclic carbene: from an abnormal Lewis adduct to a frustrated Lewis pair for efficient polymerizations of biomass-derived acrylic monomers. Polymer Chemistry, 0, , .	3.9	0
3416	The Role of Ion Exchange Resins for Solving Biorefinery Catalytic Processes Challenges. Catalysts, 2023, 13, 999.	3.5	2

#	Article	IF	Citations
3417	Synthesis of Sulfur/Selenium-containing Polyester with Recyclability and Controllable Hydrophilicity and Glass Transition Temperature. Chinese Journal of Polymer Science (English Edition), 2023, 41, 1836-1845.	3.8	1
3418	Toughening Effect of 2,5-Furandicaboxylate Polyesters on Polylactide-Based Renewable Fibers. Molecules, 2023, 28, 4811.	3.8	3
3420	Biphasic solvent systems enabled lignocellulosic biomass fractionation: A pathway towards comprehensive biomass utilization. Industrial Crops and Products, 2023, 202, 117036.	5.2	3
3421	Hydrogel-based heterogeneous-acid-catalysts for converting carbohydrates into the platform chemical: 5-hydroxymethylfurfural. Journal of the Taiwan Institute of Chemical Engineers, 2023, 149, 104997.	5.3	4
3422	Reduced metal nanocatalysts for selective electrochemical hydrogenation of biomass-derived 5-(hydroxymethyl)furfural to 2,5-bis(hydroxymethyl)furan in ambient conditions. Frontiers in Chemistry, 0, 11, .	3.6	1
3423	Biosourced Aromatic Derivatives in the Upcycling of Recycled PET: Mellophanic Dianhydride as a Chain Extender. ACS Sustainable Chemistry and Engineering, 2023, 11, 9721-9728.	6.7	2
3424	Recent Advances on Heterogeneous Non-noble Metal Catalysts toward Selective Hydrogenation Reactions. ACS Catalysis, 2023, 13, 8902-8924.	11.2	16
3425	Stable Sulfonic MCM-41 Catalyst for Furfural Production from Renewable Resources in a Biphasic System. Catalysts, 2023, 13, 1024.	3.5	1
3426	Lignocellulosic biomass pre-treatments by diluted sulfuric acid and ethanol-water mixture: A comparative techno-economic analysis. Bioresource Technology Reports, 2023, 23, 101514.	2.7	4
3427	Realizing Influence of Supports in Aqueousâ€Phase Hydrogenation of Furfural over Nickel Catalysts. ChemNanoMat, 2023, 9, .	2.8	0
3428	Efficient conversion process of glucosamine and Nâ€acetylâ€glucosamine into 5â€hydroxymethylfurfural and levulinic acid. Biofuels, Bioproducts and Biorefining, 0, , .	3.7	1
3429	Highly efficient electrooxidation of 5-hydroxymethylfurfural (HMF) by Cu regulated Co carbonate hydroxides boosting hydrogen evolution reaction. International Journal of Hydrogen Energy, 2023, 48, 38279-38295.	7.1	1
3430	Irâ€“Na cooperativity controls the diastereoselectivity of borrowing hydrogen Câ€“C alkylation on isosorbide: synthesis methodology and mechanistic investigation. Organic Chemistry Frontiers, 2023, 10, 4732-4739.	4.5	4
3431	Modeling phase equilibria in mixtures of mono- and di-carboxylic acids with hydrocarbons. Fluid Phase Equilibria, 2023, 574, 113883.	2.5	1
3432	Review of the Development of Heterogeneous Catalysts for Liquid and Vapor Phase Hydrogenolysis of Glycerol to Propylene Glycol (1,2-Propanediol): State-of-the-Art and Outlook. Energy & Fuels, 2023, 37, 6879-6906.	5.1	5
3433	C3-Alkylation of furfural derivatives by continuous flow homogeneous catalysis. Beilstein Journal of Organic Chemistry, 0, 19, 582-592.	2.2	0
3434	Green solvent for lignocellulosic biomass pretreatment: An overview of the performance of low transition temperature mixtures for enhanced bio-conversion. , 2023, 1, 100012.		3
3435	Furfural electrovalorisation using single-atom molecular catalysts. Energy and Environmental Science, 2023, 16, 2934-2944.	30.8	9

#	Article	IF	Citations
3436	Challenges for Hybrid Water Electrolysis to Replace the Oxygen Evolution Reaction on an Industrial Scale. Global Challenges, 2023, 7, .	3.6	13
3437	Dynamic change model of shrinkage liquid membrane of multi-particle cellulose in organic-aqueous-solid multiphase system. Biomass Conversion and Biorefinery, 0, , .	4.6	1
3438	Radicalâ€Mediated Photocatalysis for Lignocellulosic Biomass Conversion into Valueâ€Added Chemicals and Hydrogen: Facts, Opportunities and Challenges. Angewandte Chemie - International Edition, 2023, 62, .	13.8	8
3439	Impact of lignin source on the performance of thermoset resins. European Polymer Journal, 2023, 194, 112141.	5.4	5
3440	Radicalâ€Mediated Photocatalysis for Lignocellulosic Biomass Conversion into Valueâ€Added Chemicals and Hydrogen: Facts, Opportunities and Challenges. Angewandte Chemie, 2023, 135, .	2.0	1
3441	Main Routes of Production of High-Value-Added 2,5-Furandincarboxylic Acid Using Heterogeneous Catalytic Systems. Catalysts, 2023, 13, 880.	3.5	0
3442	Phase Equilibrium Properties of Binary Systems (Furfural + Ethanol or Butan-2-ol) at Several Temperatures. Journal of Chemical & Engineering Data, 0, , .	1.9	0
3443	Implementation and Optimization of Algal Biomass in Value-Added Products Recovery: A Step towards Algae-Based Green Economy. Hydrobiology, 2023, 2, 326-346.	1.7	3
3444	Mechanistic insights into the catalytic transfer hydrogenation of furfural to furfuryl alcohol over a N-doped carbon-supported Ni single atom catalyst from first principles. New Journal of Chemistry, 2023, 47, 11093-11101.	2.8	2
3445	Efficient hydrodeoxygenation of methyl levulinate into pentanoic biofuels over Ru/USY catalysts. Dalton Transactions, 2023, 52, 7405-7410.	3.3	1
3446	Polymers from sugars and isothiocyanates: ring-opening copolymerization of a <scp>d</scp>-xylose anhydrosugar oxetane. Polymer Chemistry, 2023, 14, 2838-2847.	3.9	1
3447	Life cycle assessment applied to bio-based platform molecules: Critical review of methodological practices. Journal of Cleaner Production, 2023, 414, 137513.	9.3	2
3448	Catalytic valorisation of the effluents generated during the defibrillation process of cellulose from almond hulls: A holistic zero-waste biorefinery approach. Journal of Cleaner Production, 2023, 414, 137582.	9.3	1
3449	Influence of bio-based 2,5-furandicarboxylic acid on the properties of water-borne polyurethane dispersions. Reactive and Functional Polymers, 2023, 190, 105622.	4.1	1
3450	Recent Advances in Metallic Catalyst Materials for Electrochemical Upgrading of Furfurals to <i>Dropâ€in</i> Biofuels: A Mini Review. Energy Technology, 0, , .	3.8	0
3451	Highly Selective Photocatalytic Conversion of 5â€Hydroxymethylâ€2â€furfural to 2,5â€Diformylfuran over Gold Ion Exchanged Cadmium Sulfide Nanowire. Advanced Sustainable Systems, 2023, 7, .	5.3	2
3452	Synthesis of fully bio-based branched unsaturated polyester oligomers and UV curing coatings. Journal of Coatings Technology Research, 2023, 20, 1747-1758.	2.5	1
3453	Comparative <scp>LCA</scp> studies of simulated <scp>HMF</scp> biorefineries from maize and miscanthus as an example of firstâ€and secondâ€generation biomass as a tool for process development. GCB Bioenergy, 2023, 15, 1011-1029.	5.6	2

#	Article	IF	Citations
3454	Recent Advances of Triglyceride Catalytic Pyrolysis via Heterogenous Dolomite Catalyst for Upgrading Biofuel Quality: A Review. Nanomaterials, 2023, 13, 1947.	4.1	2
3455	Catalytic valorization of corn husk as agricultural residues into levulinic acid. Biomass Conversion and Biorefinery, 0, , .	4.6	0
3456	Selective two-electron electrocatalytic conversion of 5-Hydroxymethylfurfural boosting hydrogen production under neutral condition over Co(OH)2-CeO2 catalyst. Applied Catalysis B: Environmental, 2023, 338, 123068.	20.2	3
3457	Reaction induced thermally stabilized TS-1 zeolite as a novel long-lasting catalyst for methyl lactate production. Chemical Communications, 2023, 59, 9376-9379.	4.1	0
3458	Catalytic Conversion of Chitin Biomass to 5-Hydroxymethylfurfural in Lithium Bromide Molten Salt Hydrates. Industrial & Engineering Chemistry Research, 2023, 62, 11248-11257.	3.7	1
3459	Effective conversion of corn stalk into ethyl levulinate and crude lignin catalyzed by ionic liquids. Biomass and Bioenergy, 2023, 175, 106894.	5.7	1
3461	Biobased furan-functionalized high-performance poly (aryl ether ketone) with low dielectric constant and low dielectric loss. Chemical Engineering Journal Advances, 2023, 16, 100530.	5.2	1
3462	Development of cellulase-producing industrial Saccharomyces cerevisiae strains for consolidated bioprocessing. , 2023, , 1-24.		1
3463	Techno-Economic Analysis of the Production of Lactic Acid from Lignocellulosic Biomass. Fermentation, 2023, 9, 641.	3.0	1
3464	Utilization of zeolite catalysts in biomass exploitation: a minireview. Monatshefte FÃ¼r Chemie, 2023, 154, 815-835.	1.8	1
3465	Innovative Synthetic Approaches for Sulphate-Promoted Catalysts for Biomass Valorisation. Catalysts, 2023, 13, 1094.	3.5	1
3466	Catalytic conversion of fructose to 5-Hydroxymethyl furfural using spent dry batteries as catalysts. AIP Conference Proceedings, 2023, , .	0.4	0
3467	Transformation of levoglucosan into liquid fuel via catalytic upgrading over Ni-CeO2 catalysts. Molecular Catalysis, 2023, , 113382.	2.0	0
3468	Semiconductor augmented hydrogen and polyhydroxybutyrate photosynthesis from <i>Rhodospirillum rubrum</i> and a mechanism study. Green Chemistry, 2023, 25, 6336-6344.	9.0	2
3469	Formic acid as renewable reagent and product in biomass upgrading. , 2023, 2, 100020.		2
3470	Sustainable Composites: A Review with Critical Questions to Guide Future Initiatives. Sustainability, 2023, 15, 11088.	3.2	0
3471	Convenient hydrogenation of furfural to furfuryl alcohol in metal-catalyzed and organo-catalyzed environments. , 2023, 1, 1471-1483.		1
3472	Unlocking the potential of catalysts in thermochemical energy conversion processes. Catalysis Science and Technology, 2023, 13, 5632-5653.	4.1	1

#	Article	IF	Citations
3473	Critical Review on the Synthesis of Levulinate Esters from Biomass-Based Feedstocks and Their Application. Industrial & Engineering Chemistry Research, 2023, 62, 17135-17147.	3.7	7
3474	Turning damages into benefits: Corrosion-engineered cobalt foam for highly efficient biomass upgrading coupled with H2 generation. Chemical Engineering Journal, 2023, 472, 144877.	12.7	2
3476	Process Design and Bayesian Optimization of 5-Hydroxymethylfurfural Hydrodeoxygenation. Computer Aided Chemical Engineering, 2023, , 2187-2193.	0.5	0
3477	One-Pot Conversion of Furfural to Gamma-Valerolactone over Zr-SBA-15: Cooperation of Lewis and BrÃ¸nsted Acidic Sites. ACS Applied Nano Materials, 2023, 6, 13196-13207.	5.0	4
3478	Highly dispersed Co anchored on Ce-doped hydroxyapatite as a dual-functional catalyst for selective hydrogenolysis of 5-hydroxymethylfurfural. Dalton Transactions, 2023, 52, 11076-11084.	3.3	2
3479	Review of Current Prospects for Using Miscanthus-Based Polymers. Polymers, 2023, 15, 3097.	4.5	3
3480	Effect of the Composition and Synthesis Procedure of Catalysts Based on CoAl Hydroxides on Their Properties in Furfural Hydrogenation. Kinetics and Catalysis, 2023, 64, 473-483.	1.0	1
3481	Reaction Pathways of Gamma-Valerolactone Hydroconversion over Co/SiO2 Catalyst. Catalysts, 2023, 13, 1144.	3.5	0
3482	Regulating the Electronic Structure of Ni Sites in Ni(OH)₂ by Ce Doping and Cu(OH)₂ Coupling to Boost 5-Hydroxymethylfurfural Oxidation Performance. Inorganic Chemistry, 2023, 62, 12534-12547.	4.0	3
3483	Synthesis and characterization of a new cellulose ether derivative: sodium levulinate cellulose. Macromolecular Research, 0, , .	2.4	0
3484	Concurrent Biocatalytic Oxidation of 5-Hydroxymethylfurfural into 2,5-Furandicarboxylic Acid by Merging Galactose Oxidase with Whole Cells. Processes, 2023, 11, 2261.	2.8	0
3485	Review on Catalytic Hydrogenation of Biomass-Derived Furfural to Furfuryl Alcohol: Recent Advances and Future Trends. Energy & Fuels, 2023, 37, 11475-11496.	5.1	4
3486	Industry-oriented method for the aqueous phase oxidation of crude 5-hydroxymethyl furfural (HMF) to 2,5-furandicarboxylic acid (FDCA). New Journal of Chemistry, 2023, 47, 15325-15335.	2.8	2
3487	Optimized Electronic Modification of S-Doped CuO Induced by Oxidative Reconstruction for Coupling Glycerol Electrooxidation with Hydrogen Evolution. Nano-Micro Letters, 2023, 15, .	27.0	10
3488	Efficient Glucose Hydrogenation to Sorbitol by Graphene-like Carbon-Encapsulated Ru Catalyst Synthesized by Evaporation-Induced Self-Assembly and Chemical Activation. ACS Sustainable Chemistry and Engineering, 2023, 11, 12052-12064.	6.7	2
3489	Hydrolytic depolymerisation of polyesters over heterogeneous ZnO catalyst. , 2023, 1, 1394-1403.		0
3490	Anchoring Co on CeO2 nanoflower as an efficient catalyst for hydrogenolysis of 5-hydroxymethylfurfural. Fuel, 2023, 354, 129433.	6.4	3
3491	Evaluating Green Solvents for Bio-Oil Extraction: Advancements, Challenges, and Future Perspectives. Energies, 2023, 16, 5852.	3.1	3

#	Article	IF	Citations
3493	Synthesis and catalytic activity of well-defined Co(<scp>i</scp>) complexes based on NHCâ€“phosphane pincer ligands. Dalton Transactions, 0, , .	3.3	0
3494	Exploring the Hydrogenation of Furfural in the Liquid Phase by High-Throughput Screening of Commercial Catalysts: Effects of Temperature, Solvents, and Promoters on the Production of 2-methylfuran. Chemical Engineering Research and Design, 2023, , .	5.6	0
3495	Levoglucosenone to 3D-printed green materials: synthesizing sustainable and tunable monomers for eco-friendly photo-curing. Green Chemistry, 2023, 25, 7571-7581.	9.0	5
3496	Polysaccharides Based Biosensors for Medical Applications: Prospective and Future Aspects. Starch/Staerke, 2023, 75, .	2.1	0
3497	Bio-based high gas barrier polyesters based on furandicarboxylic acid: Trade-off between ethylene and propylene diols. European Polymer Journal, 2023, 197, 112362.	5.4	1
3498	High-Yield Synthesis of 5-Hydroxymethylfurfural from Untreated Wheat Straw Catalyzed by FePO₄ and Organic Acid in a Biphasic System. Energy & Fuels, 2023, 37, 12953-12965.	5.1	4
3499	Selective photocatalytic oxidation of furfural to C4 compounds with metal-TS-1 zeolite. Applied Catalysis B: Environmental, 2024, 340, 123220.	20.2	2
3500	FeCl3-catalyzed Friedel-Crafts alkylation of 2-substituted furans with 2-nitrobenzhydrols. Tetrahedron, 2023, 145, 133627.	1.9	0
3501	Increasing furfural production from xylose and directly obtaining it from corn residues using Preyssler heteropolyacid. Biomass Conversion and Biorefinery, 0, , .	4.6	0
3502	Catalytic Conversion of Levulinic Acid to Pyrrolidone under Mild Conditions with Disordered Mesoporous Silicaâ€Supported Pt Catalyst. ChemSusChem, 2023, 16, .	6.8	0
3503	Carbon supported polyoxometalates as recyclable solid acid catalysts in aqueous reactions. Applied Catalysis A: General, 2023, 666, 119392.	4.3	1
3504	Pd Nanoparticle-Decorated Bi₂MoO₆ Nanoflakes with Surface Oxygen Vacancies for Selective Room-Temperature Furfural Hydrogenation and Benzyl Phenyl Ether Hydrogenolysis. ACS Applied Nano Materials, 2023, 6, 16625-16642.	5.0	1
3505	Reductive Amination of Levulinic Acid to Pyrrolidones: Key Step in Biomass Valorization towards Nitrogenâ€Containing Chemicals. ChemSusChem, 2023, 16, .	6.8	1
3506	Modular Synthesis of Fluoroâ€Substituted Furan Compounds via Controllable Fluorination of Biomassâ€Based 5â€HMF and Its Derivatives. ChemSusChem, 2024, 17, .	6.8	0
3507	Direct and efficient conversion of cellulose to levulinic acid catalyzed by carbon foam-supported heteropolyacid with BrÃ¸nstedâ€“Lewis dual-acidic sites. Bioresource Technology, 2023, 387, 129600.	9.6	4
3508	Ru Nanoparticles Supported on Mesoporous Alâ€SBAâ€15 Catalysts for Highly Selective Hydrogenation of Furfural to Furfuryl Alcohol. ChemistrySelect, 2023, 8, .	1.5	4
3509	CO₂-assisted hydrolytic hydrogenation of cellulose and cellulose-based waste into sorbitol over commercial Ru/C. Green Chemistry, 2023, 25, 6677-6685.	9.0	2
3510	One-pot photoenzymatic synthesis of maleic acid and its derivatives from bio-based furfural <i>via</i> catalytic cascades. Green Chemistry, 2023, 25, 6892-6900.	9.0	3

#	Article	IF	Citations
3511	Advancements in catalysts for glycerol oxidation <i>via</i> photo-/electrocatalysis: a comprehensive review of recent developments. Green Chemistry, 0, , .	9.0	0
3512	Oxidative Cleavage of Câ˘'C Bonds in Nonâ€aromatic Oxygenates with Molecular Oxygen for Synthesis of Carboxylic Acids. Asian Journal of Organic Chemistry, 2023, 12, .	2.7	0
3513	Green Monomers for 3D Printing: Epoxy-Methacrylate Interpenetrating Polymer Networks as a Versatile Alternative for Toughness Enhancement in Additive Manufacturing. ACS Sustainable Chemistry and Engineering, 2023, 11, 12004-12013.	6.7	3
3514	Advances in biorenewables-resource-waste systems and modelling. Carbon Capture Science & Technology, 2023, 9, 100142.	10.4	2
3515	Selective electrocatalytic hydrogenation of lignocellulose-derived 5-hydroxymethylfurfural with superior productivities. IScience, 2023, 26, 108003.	4.1	0
3516	Markedly Improved Catalytic Dehydration of Sorbitol to Isosorbide by Solâ€"Gel Sulfated Zirconia: A Quantitative Structureâ€"Reactivity Study. ACS Catalysis, 2023, 13, 10137-10152.	11.2	0
3517	Light-Driven Depolymerization of Cellulosic Biomass into Hydrocarbons. Polymers, 2023, 15, 3671.	4.5	2
3518	Metabolic engineering of Thermoanaerobacterium AK17 for increased ethanol production in seaweed hydrolysate. , 2023, 16, .		0
3519	Exploring the potential of 2,5-furandicarboxylic acid-based bioplastics: Properties, synthesis, and applications. Polymer Degradation and Stability, 2023, 218, 110539.	5.8	3
3520	Value-added hydrodeoxygenation conversion of biomass. , 2023, 1, 1-8.		1
3521	Metal-Free Carbon-Based Nanomaterials: Insights from Synthesis to Applications in Sustainable Catalysis. ACS Sustainable Chemistry and Engineering, 2023, 11, 14841-14865.	6.7	1
3522	Selective and Robust Ru Catalyst for the Aqueous Phase Aerobic Oxidation of Furfural to 2-Furoic Acid. ACS Applied Materials & Interfaces, 2023, 15, 47004-47015.	8.0	0
3523	Recent advances in fermentative production of C4 diols and their chemo-catalytic upgrading to high-value chemicals. Chinese Journal of Catalysis, 2023, 52, 99-126.	14.0	0
3524	Flexible films of main-chain luminescent liquid crystalline polymers containing renewable biobased bifuran moieties. European Polymer Journal, 2023, 199, 112448.	5.4	0
3525	Ruthenium based with carbon supported catalysts for the catalytic transfer hydrogenation of furfural: A review. Nano Energy, 2023, 117, 108808.	16.0	4
3526	Valeric Biofuels from Biomassâ€Derived Î³â€Valerolactone: A Critical Overview of Production Processes. ChemPlusChem, 2023, 88, .	2.8	0
3527	Substituted anilides from chitin-based 3-acetamido-furfural. Organic and Biomolecular Chemistry, 2023, 21, 8372-8378.	2.8	0
3528	Life cycle assessment of fermentative production of lactic acid from bread waste based on process modelling using pinch technology. Science of the Total Environment, 2023, 905, 167051.	8.0	2

#	Article	IF	Citations
3529	Prioritisation of biomass-derived products for biorefineries based on economic feasibility: A review on the comparability of techno-economic assessment results. Renewable and Sustainable Energy Reviews, 2023, 188, 113840.	16.4	0
3530	Novel Porous Organic Polymer Catalyst with Phosphate and Sulfonic Acid Sites for Facile Esterification of Levulinic Acid. ACS Applied Materials & Interfaces, 2023, 15, 48485-48494.	8.0	2
3531	Review of Separation and Purification of Biobased Derivatives Produced from Food Waste for Industrial Use. Circular Economy and Sustainability, 0, , .	5.5	0
3532	Marine plant-based biorefinery for sustainable 2,5-furandicarboxylic acid production: A review. Bioresource Technology, 2023, , 129817.	9.6	1
3533	Innovative parallel synthesis of 5-nonanone and furfural from lignocellulosic biomass accompanied by deep economic analysis. Journal of Environmental Management, 2023, 348, 119251.	7.8	0
3534	Molecular simulations of understanding the structure and separation thermodynamics of 5-Hydroxymethylfurfural from 1-Butyl-3-Methyl imidazolium tetrafluoroborate. Journal of Molecular Liquids, 2023, 391, 123354.	4.9	0
3535	Lignocellulose biomass pretreatment for efficient hydrolysis and biofuel production. , 2024, , 1-19.		0
3536	MOF Material-Derived Bimetallic Sulfide CoxNiyS for Electrocatalytic Oxidation of 5-Hydroxymethylfurfural. Nanomaterials, 2023, 13, 2318.	4.1	4
3537	Cationic UV-curing of isosorbide-based epoxy coating reinforced with macadamia nut shell powder. Progress in Organic Coatings, 2023, 185, 107949.	3.9	1
3539	A remarkable bifunctional carbon-based solid acid catalyst derived from waste bio-tar for efficient synthesis of 5-hydroxymethylfurfural from glucose. Chemical Engineering Journal, 2023, 474, 146006.	12.7	3
3540	5-Methoxymethyl furfural production by acid heterogeneous catalytic etherification of 5-hydroxymethyl furfural. Catalysis Today, 2024, 426, 114374.	4.4	1
3541	Ruthenium oxide/cobalt oxide heterojunction electrocatalyst for biomass-derivative oxidation and hydrogen evolution. Advanced Composites and Hybrid Materials, 2023, 6, .	21.1	2
3542	Harnessing lignocellulosic resources in bacteria: An evolutionary and metabolic perspective on sugar utilization, inhibitor tolerance, and bioconversion. Biocatalysis and Agricultural Biotechnology, 2023, 53, 102852.	3.1	0
3543	Efficient Conversions of Macroalgae-Derived Anhydrosugars to 5-Hydroxymethylfurfural and Levulinic Acid: The Remarkable Case of 3,6-Anhydro-<scp>d</scp>-galactose. Industrial & Engineering Chemistry Research, 2023, 62, 15821-15833.	3.7	0
3544	Producing N-Heterocyclic Compounds from Lignocellulosic Biomass Feedstocks. Biofuels and Biorefineries, 2023, , 73-109.	0.5	0
3545	Glycerol selective oxidation to lactic acid over platinumâ€“vanadium bimetallic catalysts supported on activated carbon. Reaction Chemistry and Engineering, 0, , .	3.7	0
3546	Liquid-phase sorbitol hydrogenolysis over Co catalysts: Effect of external vs endogenous H2 on the product distribution. Fuel, 2024, 357, 129984.	6.4	1
3547	Current Status and Challenges for Metalâ€Organicâ€Frameworkâ€Assisted Conversion of Biomass into Valueâ€Added Chemicals. ChemPlusChem, 2023, 88, .	2.8	0

#	Article	IF	Citations
3548	An Overview on Production of Lignocellulose-Derived Platform Chemicals Such as 5-Hydroxymethyl Furfural, Furfural, Protocatechuic Acid. Processes, 2023, 11, 2912.	2.8	2
3549	Reductive coupling of nitroarenes with carboxylic acids â€" a direct route to amide synthesis. Organic and Biomolecular Chemistry, 2023, 21, 8477-8481.	2.8	2
3550	Conversion Technologies for Green Gasoline. , 2023, , 96-108.		0
3551	Recent Advancements in Electrochemical Hydrogen Production via Hybrid Water Splitting. Advanced Materials, 2024, 36, .	21.0	4
3552	High-power hybrid alkali-acid fuel cell for synchronous glycerol valorization implemented by high-entropy sulfide electrocatalyst. Nano Energy, 2023, 118, 108992.	16.0	1
3553	Selective Hydrodeoxygenation of Furfural to 2-Methylfuran over Silica-Supported MoP Catalysts under Mild Conditions. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
3555	Recovery of palladium from waste fashion items through food waste by-products. , 2023, 1, 2350-2357.		0
3556	Potential Opportunities to Convert Waste to Bio-Based Chemicals at an Industrial Scale in South Africa. Fermentation, 2023, 9, 908.	3.0	0
3558	Function of BrÃ¸nsted and Lewis acid sites in xylose conversion into furfural. RSC Advances, 2023, 13, 30649-30664.	3.6	0
3559	Furanic (Meth)acrylate Monomers as Sustainable Reactive Diluents for Stereolithography. ACS Applied Polymer Materials, 2023, 5, 9659-9670.	4.4	1
3560	Hydrodeoxygenation of Furfural over Unsupported, SiO2â€supported or Metalâ€promoted Mo Carbides: Tuning the Selectivity between 2â€Methylfuran and C10 Furoins Diesel Precursors. ChemCatChem, 0, , .	3.7	0
3561	Electrochemical Polarization of Disparate Catalytic Sites Drives Thermochemical Rate Enhancement. ACS Catalysis, 2023, 13, 14189-14198.	11.2	1
3562	LPMO-supported saccharification of biomass: effects of continuous aeration of reaction mixtures with variable fractions of water-insoluble solids and cellulolytic enzymes. , 2023, 16, .		1
3563	Oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid over CuO and NiO modified natural sourced hierarchical ZSM-5. South African Journal of Chemical Engineering, 2024, 47, 75-82.	2.4	1
3564	Development of a Green Process for the Synthesis of Cyclopentanone Using Selective Aqueous Phase Hydrogenation of Furfural over Niâ€"Cu@MOF-5 Catalyst. Industrial & Engineering Chemistry Research, 2023, 62, 17408-17427.	3.7	1
3566	Oxygen vacancy-driven strong metal-support interactions on AuPd/TiO2 catalysts for high-efficient air-oxidation of 5-hydroxymethylfurfural. Chemical Engineering Journal, 2023, 476, 146874.	12.7	3
3567	Selective Electroreduction of 5â€Hydroxymethylfurfural to Dimethylfuran in Neutral Electrolytes via Hydrogen Spillover and Adsorption Configuration Adjustment. Advanced Materials, 2024, 36, .	21.0	0
3568	Synergistic effect of silanols in mesopores leading to unexpected catalysis of dendritic mesoporous silica particles in the aqueous-phase synthesis of 5-hydroxymethylfurfural from fructose. Chemical Engineering Journal, 2023, 477, 147074.	12.7	0

#	Article	IF	Citations
3569	MCF2Chem: A manually curated knowledge base of biosynthetic compound production. , 2023, 16, .		1
3570	Hydrothermal pretreatment of woody biomass and potential non-fuel applications of the solubilized constituents. , 2024, , 215-262.		0
3571	Dynamic lid domain of Chloroflexus aurantiacus Malonyl-CoA reductase controls the reaction. Biochimie, 2024, 219, 12-20.	2.6	0
3572	Impact of the Electrochemically Inert Furan Ring on the Oxidation of the Alcohol and Aldehyde Functional Group of 5â€Hydroxymethylfurfural (HMF). ChemElectroChem, 0, , .	3.4	0
3573	Arabinose as an overlooked sugar for microbial bioproduction of chemical building blocks. Critical Reviews in Biotechnology, 0, , 1-18.	9.0	0
3574	MOF-derived interface-rich silver/silver oxide nano-structures as an effective electrocatalyst for oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid (FDCA) with spontaneous FDCA separation in acid media. Sustainable Energy and Fuels, 2023, 7, 5681-5692.	4.9	0
3575	Highly-dispersed surface NiO species and exposed Ni (200) facets facilitating activation of furan ring for high-efficiency total hydrogenation of furfural. Applied Catalysis B: Environmental, 2024, 343, 123501.	20.2	2
3576	Organically Functionalized Porous Aluminum Phosphonate for Efficient Synthesis of 5-Hydroxymethylfurfural from Carbohydrates. Catalysts, 2023, 13, 1449.	3.5	0
3577	A Highly Efficient Ni/Al2O3-LaOx Catalyst for the Reductive Amination of Furfural to Furfurylamine: the Promoting Effect of La. Chemical Research in Chinese Universities, 0, , .	2.6	0
3578	Rigorous design, techno-economic and environmental analysis of two catalytic transfer hydrogenation (CTH) processes to produce bio-based 2-methylfuran (2-MF). Chemical Engineering Research and Design, 2024, 181, 429-441.	5.6	1
3579	Anionic Regulation and Heteroatom Doping of Niâ€Based Electrocatalysts to Boost Biomass Valorization Coupled with Hydrogen Production. Advanced Energy Materials, 2024, 14, .	19.5	1
3580	Advances in selective conversion of carbohydrates into 5-hydroxymethylfurfural. Green Energy and Environment, 2023, , .	8.7	1
3581	Synthesis of n-Butyl Levulinate Over Caesium Containing Heteropoly Acid Supported Zeolite Î² Catalysts. Catalysis Surveys From Asia, 2024, 28, 36-47.	2.6	0
3582	Mono-Digestion of 5-Hydroxymethylfurfural Process-Wastewater in Continuously Operated Anaerobic Filters: A Cascade Utilization Approach. Energies, 2023, 16, 7576.	3.1	0
3583	Chemocatalytic production of sorbitol from cellulose <i>via</i> sustainable chemistry â€" a tutorial review. Green Chemistry, 0, , .	9.0	0
3584	Catalytic deoxydehydration of glycerol to allyl alcohol in the presence of mono-oxygenated rhenium diphosphine complexes. Polyhedron, 2024, 248, 116734.	2.2	0
3585	MFI zeolite with confined adjustable synergistic Cu sites for the hydrogenation of levulinic acid. Green Chemistry, 2024, 26, 498-506.	9.0	1
3586	Multisite Mutation of the <i>Escherichia coli</i> cAMP Receptor Protein: Enhancing Xylitol Biosynthesis by Activating Xylose Catabolism and Improving Strain Tolerance. Journal of Agricultural and Food Chemistry, 0, , .	5.2	2

#	Article	IF	Citations
3587	Biosynthesis of poly(Î²-L-malic acid) from rubberwood enzymatic hydrolysates in co-fermentation by Aureobasidium pullulans. International Journal of Biological Macromolecules, 2024, 257, 128605.	7.5	0
3588	Engineering a localized electrostatic environment to enhance hydroxyl activating for electrocatalytic biomass conversion. Chinese Journal of Catalysis, 2023, 53, 153-160.	14.0	0
3589	Effective biosynthesis of 2,5-furandicarboxylic acid from 5-hydroxymethylfurfural via a bi-enzymatic cascade system using bacterial laccase and fungal alcohol oxidase. , 2023, 16, .		0
3591	å…‰å‚¬åŒ–/å…‰ç”µå‚¬åŒ–5-ç¾Ÿç”²åŸºç³ é†›çš„ç”ç©¶è¿›å±•. Scientia Sinica Chimica, 2023, , .	0.4	0
3594	Exploitation of microbial activities at low pH to enhance planetary health. FEMS Microbiology Reviews, 2024, 48, .	8.6	0
3595	An efficient production of bio-succinate in a novel metabolically engineered Klebsiella oxytoca by rational metabolic engineering and evolutionary adaptation. Bioresource Technology, 2024, 393, 130045.	9.6	1
3596	Globally optimal scheduling of an electrochemical process via data-driven dynamic modeling and wavelet-based adaptive grid refinement. Optimization and Engineering, 0, , .	2.4	0
3598	Facile Hydrogenolysis of Sugars to 1,2-Glycols by Ru@PPh₃/OPPh₃ Confined Large-Pore Mesoporous Silica. Journal of Physical Chemistry Letters, 2023, 14, 10832-10846.	4.6	0
3599	Self-Reconstruction of Sulfate-Terminated Copper Oxide Nanorods for Efficient and Stable 5-Hydroxymethylfurfural Electrooxidation. Nano Letters, 2023, 23, 11314-11322.	9.1	2
3600	Glycerol as substrate and NADP+-dependent glyceraldehyde-3-phosphate dehydrogenase enable higher production of 3-hydroxypropionic acid through the Î²-alanine pathway in E. coli. Bioresource Technology, 2024, 393, 130142.	9.6	0
3601	Partially Thiolated Au_{<i>n</i>} (<i>n</i> = 25, 102) Clusters on Layered Double Hydroxides Anchored by Electrostatic Interactions: Size Effect on 5-Hydroxymethylfurfural Oxidation Catalysis. ACS Catalysis, 0, , 16179-16187.	11.2	0
3602	Electrolyte dependence for the electrochemical decarboxylation of medium-chain fatty acids (n-octanoic acid) into fuel on Pt electrode. Materials Reports Energy, 2023, , 100244.	3.2	0
3603	Broccoli Leaves (Brassica oleracea var. italica) as a Source of Bioactive Compounds and Chemical Building Blocks: Optimal Extraction Using Dynamic Maceration and Life Cycle Assessment. Sustainability, 2023, 15, 16616.	3.2	0
3604	Effect of K⁺ and Ca²⁺ Cations on Structural Manganese(IV) Oxide for the Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. ACS Omega, 0, , .	3.5	0
3605	Toward effective electrocatalytic Câ€“N coupling for the synthesis of organic nitrogenous compounds using CO₂ and biomass as carbon sources. SusMat, 2023, 3, 781-820.	14.9	4
3607	â€œElectrochemical reduction of HMF to synthesize added value compounds using CuAg electrodesâ€. Electrochimica Acta, 2024, 475, 143676.	5.2	0
3608	Levulinic to succinic acid transformation over Ru based catalysts. , 2024, 3, 100059.		0
3609	Metal Organic Frameworks Derived Catalysts for the Upgrading of Platform Chemicals. ChemCatChem, 0, , .	3.7	0

#	Article	IF	Citations
3610	Preparation of Furanyl Primary Amines from Biobased Furanyl Derivatives over Heterogeneous Catalysts. ACS Sustainable Chemistry and Engineering, 2023, 11, 17951-17978.	6.7	0
3611	Adsorptive separation of saccharides and polyols over materials functionalized with boronate groups. Green Chemistry, 0, , .	9.0	0
3612	Synergy of Oxygen Vacancies and Base Sites for Transfer Hydrogenation of Nitroarenes on Ceria Nanorods. Angewandte Chemie, 2024, 136, .	2.0	0
3613	Ð¡atalysts for Electrooxidation of Biomass Processing Products. Russian Journal of Applied Chemistry, 2023, 96, 123-142.	0.5	0
3614	Synergy of Oxygen Vacancies and Base Sites for Transfer Hydrogenation of Nitroarenes on Ceria Nanorods. Angewandte Chemie - International Edition, 2024, 63, .	13.8	0
3615	Review and Perspective of Nickel and Its Derived Catalysts for Different Electrochemical Synthesis Reactions in Alkaline Media for Hydrogen Production. Energy & Fuels, 0, , .	5.1	0
3616	Gas Phase Conformation of Trisaccharides and Core Pentasaccharide: A Three-Step Tree-Based Sampling and Quantum Mechanical Computational Approach. Molecules, 2023, 28, 8093.	3.8	0
3617	An Overview of Heterogeneous Catalysts Based on Hypercrosslinked Polystyrene for the Synthesis and Transformation of Platform Chemicals Derived from Biomass. Molecules, 2023, 28, 8126.	3.8	0
3618	Exclusive D-lactate-isomer production during a reactor-microbiome conversion of lactose-rich waste by controlling pH and temperature. Water Research, 2024, 250, 121045.	11.3	0
3619	Unraveling the Electrooxidation Mechanism of 5-(Hydroxymethyl)furfural at a Molecular Level via Nickel-Based Two-Dimensional Metalâ€"Organic Frameworks Catalysts. ACS Catalysis, 0, , 449-462.	11.2	0
3623	Reductive amination of carboxylic acids under H₂ using a heterogeneous Ptâ€"Mo catalyst. Green Chemistry, 2024, 26, 2571-2576.	9.0	0
3626	Catalytic Valorization of Humins by Selective Oxidation Using Transition-Metal-Substituted Keggin-Type Polyoxometalate Catalysts. ACS Sustainable Chemistry and Engineering, 2024, 12, 543-560.	6.7	0
3627	Engineering 5-hydroxymethylfurfural (HMF) oxidation in Pseudomonas boosts tolerance and accelerates 2,5-furandicarboxylic acid (FDCA) production. Metabolic Engineering, 2023, , .	7.0	0
3628	Unveiling the mechanism of electrocatalytic oxidation of glycerol by in-situ electrochemical spectroscopy. Chemical Engineering Journal, 2024, 481, 148304.	12.7	0
3629	Synthesis and Catalytic Applications of Advanced Snâ€•and Zrâ€Zeolites Materials. Advanced Science, 2024, 11, .	11.2	0
3630	New insights on the role of perimeter sites in oxygen and methanol activation during furfural oxidative esterification over gold supported catalysts. , 2024, 3, 100094.		0
3631	Research progress of Co and Mnâ€based catalysts for the oxidation of 5â€hydroxymethylfurfural. ChemCatChem, 0, , .	3.7	0
3632	Melting Behaviors of Bio-Based Poly(propylene 2,5-furan dicarboxylate)-b-poly(ethylene glycol) Co Polymers Related to Their Crystal Morphology. Polymers, 2024, 16, 97.	4.5	0

#	Article	IF	Citations
3634	Calcium decorated Copper@Nitrogen-Doped carbon towards highly selective hydrogenation of biomass derived furfural. Fuel, 2024, 362, 130829.	6.4	0
3635	Biobased Glycols â€“ Towards the Use of Solid Bases in the Hydrogenolysis of Sorbitol. ChemistrySelect, 2024, 9, .	1.5	0
3636	Investigation of the bifunctionality of catalysts based on Rh associated with an oxophilic promoter in the hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol. Journal of Catalysis, 2024, 430, 115305.	6.2	0
3638	Investigation of the effects of cellulose nanofiber on the properties of poly(vinyl alcohol) crosslinked by 2,5-furandicarboxylic acid. Journal of Elastomers and Plastics, 2024, 56, 194-210.	1.5	0
3639	Foam-Like Multi-Stage Porous Al-KIT-6-4T(WI) Catalyst for Efficient Catalyzing Biomass-Derived GVL to Butene. Catalysis Letters, 2024, 154, 3025-3034.	2.6	0
3640	Efficient tunable approach for 5-(hydroxymethyl)furfural and 2,5-diformylfuran production from fructose in DMSO with bromide catalysis. Catalysis Communications, 2024, 186, 106831.	3.3	0
3641	Sustainable carbonaceous raw materials: A contribution to reduce the negative environmental impacts of chemical industry. , 2024, 5, 100058.		0
3642	Effect of tunable acidic properties on the selectivity of biofuel candidate 2,<scp>5â€bis</scp>(<scp>propoxymethyl</scp>)furan (<scp>BPMF</scp>) using Snâ€H<i>Î²</i> and <scp>Snâ€dAlH<i>Î²</i></scp> catalysts. Biofuels, Bioproducts and Biorefining, 2024, 18, 495-509.	3.7	0
3643	Fuel Bioadditives Synthesis from Furfural Glycerol Condensation over Vanadium-Substituted Cesium Phosphomolybdate Salts. Catalysis Letters, 0, , .	2.6	0
3644	Kinetic Modeling of Erythritol Deoxydehydration and Consecutive Hydrogenation over the ReO_{<i>x</i>}-Pd/CeO₂ Catalyst. ACS Catalysis, 2024, 14, 1663-1677.	11.2	0
3645	Nobleâ€Metalâ€Free Carbon Encapsulated CoNi Alloy Catalyst for the Hydrogenation of 5â€(Hydroxymethyl) Furfural to Tetrahydrofurandiol in Aqueous Media. ChemPlusChem, 0, , .	2.8	1
3646	Metabolic engineering in lignocellulose biorefining for high-value chemicals: recent advances, challenges, and outlook for enabling a bioeconomy. , 0, 1, .		0
3647	Upcycling of Agricultural Waste Stream to Highâ€Molecularâ€Weight Bioâ€based Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	6.8	0
3648	Improved chemical recyclability of 2,5-furandicarboxylate polyesters enabled by acid-sensitive spirocyclic ketal units. Green Chemistry, 2024, 26, 2858-2873.	9.0	1
3649	Catabolic Network of the Fermentative Gut Bacterium <i>Phocaeicola vulgatus</i> (Phylum) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.4	0
3650	Mesoporous SBA-15 supported Ru nanoparticles for effective hydrogenation of ethyl levulinate at room temperature. Journal of Porous Materials, 2024, 31, 727-736.	2.6	0
3651	Development of a green scalable route toward the synthesis of bio-based 2-pyrones. Reaction Chemistry and Engineering, 2024, 9, 1140-1144.	3.7	0
3652	Waterâ€Degradable Oxygenâ€Rich Polymers with AB/ABB Units from Fast and Selective Copolymerization. Angewandte Chemie - International Edition, 2024, 63, .	13.8	0

#	Article	IF	Citations
3653	Waterâ€Degradable Oxygenâ€Rich Polymers with AB/ABB Units from Fast and Selective Copolymerization. Angewandte Chemie, 2024, 136, .	2.0	0
3654	Immobilised Ruthenium Complexes for the Electrooxidation of 5â€Hydroxymethylfurfural. Chemistry - A European Journal, 2024, 30, .	3.3	0
3655	Production and Synthetic Possibilities of 5-Chloromethylfurfural as Alternative Biobased Furan. Catalysts, 2024, 14, 117.	3.5	0
3656	Highâ€Performance Supported Ru Catalysts for the Aqueousâ€Phase Hydrogenation of Levulinic Acid to Î³â€Valerolactone. ChemCatChem, 0, , .	3.7	0
3657	Isosorbide, a versatile green chemical: Elucidating its ADME properties for safe use. Ecotoxicology and Environmental Safety, 2024, 272, 116051.	6.0	1
3658	Modelling of transport, adsorption and surface reaction kinetics on Ni, Pd and Ru metallic/acidic catalyst sites during hydrodeoxygenation of furfural. Chemical Engineering Journal, 2024, 483, 149284.	12.7	0
3659	Closing the loop: polyimine thermosets from furfural derived bioresources. , 0, , .		0
3660	Design, synthesis, and progress of covalent organic frameworks (COFs)-based electrocatalysts for valorisation of biomass-derived platform chemicals. Materials Today Advances, 2024, 21, 100473.	5.2	0
3661	Pushing the Efficiency of the Selective and Baseâ€free Airâ€Oxidation of HMF by Varying the Properties of Carbonâ€based Supports. ChemCatChem, 0, , .	3.7	0
3662	Oneâ€pot Twostep Chemobiocatalytic Synthesis of a Furan Amino Acid from 5â€Hydroxymethylfurfural. Chemistry - A European Journal, 2024, 30, .	3.3	0
3663	Valorization of biomass platform molecules through one-pot cascade processes using heterogeneous catalysts. , 2024, 3, 100037.		0
3664	Decatungstateâ€Catalyzed Carbonâ€Carbon Bond Formation Between Furfural and Electronâ€Deficient Olefins. European Journal of Organic Chemistry, 2024, 27, .	2.4	0
3665	Photocatalytic reforming of biomass for hydrogen production: A comprehensive overview. Fuel Processing Technology, 2024, 255, 108057.	7.2	0
3666	Synthesis of Biobased Poly(butylene Furandicarboxylate) Containing Polysulfone with Excellent Thermal Resistance Properties. Biomacromolecules, 2024, 25, 1825-1837.	5.4	0
3667	Covalent triazine-based frameworks â€" switching selectivity in HMF photooxidation. Green Chemistry, 2024, 26, 3397-3405.	9.0	0
3668	Ecotoxicological assessment of biomass-derived furan platform chemicals using aquatic and terrestrial bioassays. Environmental Sciences: Processes and Impacts, 2024, 26, 686-699.	3.5	0
3669	Surface properties of carbon black functionalized with pyrrole compounds. Diamond and Related Materials, 2024, 143, 110899.	3.9	0
3670	Synergistic Lewis and BrÃ¸nsted Acid Sites Promote OH* Formation and Enhance Formate Selectivity: Towards Highâ€efficiency Glycerol Valorization. Angewandte Chemie - International Edition, 2024, 63, .	13.8	0

#	Article	IF	Citations
3671	Synergistic Lewis and BrÃ¸nsted Acid Sites Promote OH* Formation and Enhance Formate Selectivity: Towards Highâ€efficiency Glycerol Valorization. Angewandte Chemie, 2024, 136, .	2.0	0
3672	Pyrrole Compounds from the Two-Step One-Pot Conversion of 2,5-Dimethylfuran for Elastomer Composites with Low Dissipation of Energy. Molecules, 2024, 29, 861.	3.8	0
3673	Selective photocatalytic and photoelectrocatalytic synthesis of valuable compounds in aqueous medium. Catalysis Today, 2024, 432, 114587.	4.4	0
3674	Valorization of Lignocellulosic Molecules through Homogeneous Ruâ€Catalyzed Câ^'C and Câ^'N Bond Forming Reactions. ChemistrySelect, 2024, 9, .	1.5	0
3675	Extraction of 5-Hydroxymethylfurfural and Furfural in Aqueous Biphasic Systems: A COSMO-RS Guided Approach to Greener Solvent Selection. ACS Sustainable Chemistry and Engineering, 2024, 12, 3766-3779.	6.7	0
3676	Microbial Production of Dicarboxylates: Succinic Acid, Malic Acid, and Itaconic Acid. , 2024, , 1-36.		0
3677	XylR Overexpression in Escherichia coli Alleviated Transcriptional Repression by Arabinose and Enhanced Xylitol Bioproduction from Xylose Mother Liquor. Applied Biochemistry and Biotechnology, 0, , .	2.9	0
3678	Preparation and application of UiO-66(Zr) and its derivatives as catalysts in lignocellulosic biomass conversion. Chemical Engineering Journal, 2024, 486, 149971.	12.7	0
3679	Origin of Catalytic Selectivity from Sn(OTf)₂ in Methanol Solution for the Conversion of Glucose to Î±-Hydroxyesters. Journal of Physical Chemistry C, 2024, 128, 3718-3732.	3.1	0
3680	Process integration and systems optimization for the hydrodeoxygenation of 5-hydroxymethylfurfural to dimethylfuran. Computers and Chemical Engineering, 2024, 184, 108644.	3.8	0
3681	Rational process design for the efficient oxidation of crude HMF-solution using AuPd/C catalysts. Catalysis Today, 2024, 432, 114615.	4.4	0
3682	Progress in the valorization of biomass: a statistical perspective. Journal of Mathematical Chemistry, 2024, 62, 951-972.	1.5	0
3683	Multiple approaches to exploit ferulic acid bio-based epoxy monomer for green thermoset. Industrial Crops and Products, 2024, 212, 118304.	5.2	0
3684	Sustainable recycling of polymers: a comprehensive review. Polymer Bulletin, 0, , .	3.3	0
3685	Assessing microbial systems and process configurations for improved ethanol production from sugary stovers by integrating soluble sugars and holocellulose. Industrial Crops and Products, 2024, 212, 118269.	5.2	0
3686	Green Plasticizer for Poly(vinyl chloride) Re-Granulate Production: Case Study of Sustainability Concept Implementation. Processes, 2024, 12, 520.	2.8	0
3687	Sorbitol production from mixtures of molasses and sugarcane bagasse hydrolysate using the thermally adapted Zymomonas mobilis ZM AD41. Scientific Reports, 2024, 14, .	3.3	0
3688	A Clever Application of a Recycled Waste Solution for Levulinic Acid and Adsorbent Production from Apple Pomace Using a Hydrothermal Process. Waste and Biomass Valorization, 0, , .	3.4	0

#	Article	IF	Citations
3689	Catalytic conversion of glucosamine to levulinic acid for sustainable chemical synthesis. Biomass Conversion and Biorefinery, 0, , .	4.6	0
3690	Biomass-Derived Carbohydrates to 5-Ethoxymethylfurfural. Waste and Biomass Valorization, 0, , .	3.4	0
3691	Dynamics-driven tailoring of Zr-embedded hierarchical ZSM-5 zeolites for enhanced catalytic performance from furfural to alkyl levulinate. Chemical Engineering Journal, 2024, 486, 150350.	12.7	0
3692	Identifying uncertainty in the global warming impacts of biomaterials: an analysis of biosuccinic acid. International Journal of Life Cycle Assessment, 0, , .	4.7	0
3693	Investigation on the preparation of 5-Hydroxymethylfurfural through fructose dehydration using in-line FTIR and in-situ 13C NMR. Journal of Catalysis, 2024, 432, 115450.	6.2	0
3694	Recyclable and (Bio)degradable Polyesters in a Circular Plastics Economy. Chemical Reviews, 2024, 124, 4393-4478.	47.7	0
3695	Design and Characterization of High Gas Barrier and Fully Biobased Poly(1,5-pentylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 507 Td (su Engineering, 2024, 12, 5640-5650.	6.7	0
3696	Study on furfural conversion into aromatics over Zn/<scp>HZSM</scp>â€5 and Fe/<scp>HZSM</scp>â€5 catalysts. , 2020, 58, 602-609.		0
3697	Waste Viscose for Optically pure Lactic acid Production. Waste and Biomass Valorization, 0, , .	3.4	0
3698	Kinetics and mechanistic insights into selective hydrogenation of furfural to furfuryl alcohol over Niâ€“Ga intermetallics. AICHE Journal, 0, , .	3.6	0
3699	Multiscale investigation of the mechanism of biomass deconstruction in the dimethyl isosorbide/water Co-solvent pretreatment system. Green Chemistry, 2024, 26, 4758-4770.	9.0	0
3701	Amide Modification of Glycolipid Biosurfactants as Promising Biocompatible Antibacterial Agents. Journal of Agricultural and Food Chemistry, 2024, 72, 6302-6314.	5.2	0