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High yield production of levulinic acid by catalytic partial oxidation of cellulose in aqueous media

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#	Paper	IF	Citations
80	Fuel intermediates, agricultural nutrients and pure water from <i>Kappaphycus alvarezii</i> seaweed. <i>RSC Advances</i> , 2013 , 3, 17989	3.7	35
79	Conversion of glucose and cellulose into value-added products in water and ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 2619	10	228
78	Synergy of Lewis and Brønsted Acids on Catalytic Hydrothermal Decomposition of Hexose to Levulinic Acid. <i>Energy & Fuels</i> , 2013 , 27, 6973-6978	4.1	62
77	One-Pot Synthesis of Levulinic Acid/Ester from C5 Carbohydrates in a Methanol Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 1593-1599	8.3	92
76	Conversion of carbohydrate biomass to Valerolactone by using water-soluble and reusable iridium complexes in acidic aqueous media. <i>ChemSusChem</i> , 2013 , 6, 1163-7	8.3	100
75	Zeolite Catalyzed Transformation of Carbohydrates to Alkyl Levulinates. <i>ChemCatChem</i> , 2013 , 5, 1754-1757	5.7	105
74	Catalytic Decomposition of Glucose to Levulinic Acid by Synergy of Organic Lewis Acid and Brønsted Acid in Water. <i>BioResources</i> , 2014 , 10,	1.3	6
73	Catalytic Conversion of Lignocellulosic Biomass to Value-Added Organic Acids in Aqueous Media. <i>Green Chemistry and Sustainable Technology</i> , 2014 , 109-138	1.1	1
72	Catalytic oxidative conversion of cellulosic biomass to formic acid and acetic acid with exceptionally high yields. <i>Catalysis Today</i> , 2014 , 233, 77-82	5.3	80
71	Catalytic transformations of cellulose and cellulose-derived carbohydrates into organic acids. <i>Catalysis Today</i> , 2014 , 234, 31-41	5.3	120
70	Catalytic Conversion of Cellulose into Levulinic Acid by a Sulfonated Chloromethyl Polystyrene Solid Acid Catalyst. <i>ChemCatChem</i> , 2014 , 6, 753-757	5.2	85
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68	Influence of Molten Salts on Soybean Oil Catalytic Pyrolysis with/without a Basic Catalyst. <i>Energy & Fuels</i> , 2014 , 28, 535-541	4.1	3
67	Selective Transformation of 5-Hydroxymethylfurfural into the Liquid Fuel 2,5-Dimethylfuran over Carbon-Supported Ruthenium. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3056-3064	3.9	112
66	Chemoselective Hydrogenation of Biomass-Derived 5-Hydroxymethylfurfural into the Liquid Biofuel 2,5-Dimethylfuran. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9969-9978	3.9	118
65	Selective conversion of cellulose in corncob residue to levulinic acid in an aluminum trichloride-sodium chloride system. <i>ChemSusChem</i> , 2014 , 7, 2482-8	8.3	56
64	Low-temperature oxidation of guaiacol to maleic acid over TS-1 catalyst in alkaline aqueous H ₂ O ₂ solutions. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 622-630	11.3	9

63	Efficient Conversion of Cellulose to Levulinic Acid by Hydrothermal Treatment Using Zirconium Dioxide as a Recyclable Solid Acid Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18796-18805	3.9	76
62	Acid-catalyzed Oxidation of Levulinate Derivatives to Succinates under Mild Conditions. <i>ChemCatChem</i> , 2015 , 7, 916-920	5.2	18
61	Biomass characterization of Agave and Opuntia as potential biofuel feedstocks. <i>Biomass and Bioenergy</i> , 2015 , 76, 43-53	5.3	75
60	Catalytic transformation of cellulose and its derived carbohydrates into chemicals involving C C bond cleavage. <i>Journal of Energy Chemistry</i> , 2015 , 24, 595-607	12	44
59	Catalytic transformations of cellulose and its derived carbohydrates into 5-hydroxymethylfurfural, levulinic acid, and lactic acid. <i>Science China Chemistry</i> , 2015 , 58, 29-46	7.9	68
58	A new porous Zr-containing catalyst with a phenate group: an efficient catalyst for the catalytic transfer hydrogenation of ethyl levulinate to Valerolactone. <i>Green Chemistry</i> , 2015 , 17, 1626-1632	10	131
57	Heterogeneous catalyst-assisted thermochemical conversion of food waste biomass into 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2015 , 178, 19-27	11	35
56	Heterogeneous Catalytic Conversion of Biobased Chemicals into Liquid Fuels in the Aqueous Phase. <i>ChemSusChem</i> , 2016 , 9, 1355-85	8.3	50
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54	Hydrothermal Decomposition of Carbohydrates to Levulinic Acid with Catalysis by Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11044-11051	3.9	27
53	Zeolite and zeotype-catalysed transformations of biofuranic compounds. <i>Green Chemistry</i> , 2016 , 18, 5701-5735	10	113
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45	Selective conversion of cellulose to levulinic acid and furfural in sulfolane/water solvent. <i>Cellulose</i> , 2017 , 24, 1383-1394	5.5	34
44	Reactant effect on visible-light driven photocatalytic performance of sol-gel derived tetragonal ZrO ₂ nanoparticles. <i>Materials Research Bulletin</i> , 2017 , 93, 264-269	5.1	16
43	Hydrogenation of biomass-derived ethyl levulinate into γ -valerolactone by activated carbon supported bimetallic Ni and Fe catalysts. <i>Fuel</i> , 2017 , 203, 23-31	7.1	60
42	New Method for Highly Efficient Conversion of Biomass-Derived Levulinic Acid to γ -Valerolactone in Water without Precious Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6517-6523	8.3	25
41	Intensified levulinic acid/ester production from cassava by one-pot cascade prehydrolysis and delignification. <i>Applied Energy</i> , 2017 , 204, 1094-1100	10.7	16
40	Unconventional Pretreatment of Lignocellulose with Low-Temperature Plasma. <i>ChemSusChem</i> , 2017 , 10, 14-31	8.3	49
39	Catalytic transfer hydrogenation of ethyl levulinate to γ -valerolactone over zirconium (IV) Schiff base complexes on mesoporous silica with isopropanol as hydrogen source. <i>Molecular Catalysis</i> , 2017 , 441, 168-178	3.3	19
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35	The Applications of Nanocomposite Catalysts in Biofuel Production. 2018 , 309-350		2
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33	Exploring and exploiting different catalytic systems for the direct conversion of cellulose into levulinic acid. <i>New Journal of Chemistry</i> , 2018 , 42, 1845-1852	3.6	22
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30	Highly Efficient Transfer Hydrogenation of Levulinate Esters to γ -Valerolactone over Basic Zirconium Carbonate. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10126-10136	3.9	20
29	Catalytic Approaches to the Production of Furfural and Levulinates From Lignocelluloses. 2018 , 235-269		
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