

Conversion of biomass to selected chemical products

Chemical Society Reviews

41, 1538-1558

DOI: [10.1039/c1cs15147a](https://doi.org/10.1039/c1cs15147a)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Catalytic conversion of biomass-derived carbohydrates into fuels and chemicals via furanic aldehydes. RSC Advances, 2012, 2, 11184.	1.7	329
2	Eugenol as a renewable feedstock for the production of polyfunctional alkenes via olefin cross-metathesis. RSC Advances, 2012, 2, 9584.	1.7	65
3	Mechanistic Insights into the Kinetic and Regiochemical Control of the Thiol-Promoted Catalytic Synthesis of Diphenolic Acid. ACS Catalysis, 2012, 2, 2700-2704.	5.5	38
4	Furfuryl aryl(alkyl) ketones: preparation and synthetic potential (review). Chemistry of Heterocyclic Compounds, 2012, 48, 1281-1296.	0.6	4
5	Heterogeneous Catalysis: A Key Tool toward Sustainability. ChemCatChem, 2012, 4, 1897-1906.	1.8	81
6	Oxidations by the system $\text{H}_2\text{O}_2/\text{[Mn}_2\text{L}_2\text{O}_3\text{]}_2^+$ (L = Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 542 Td (1,4,7-tm	1.6	11
7	Valorization of Biomass: Deriving More Value from Waste. Science, 2012, 337, 695-699.	6.0	1,791
8	A sulfuric acid management strategy for the production of liquid hydrocarbon fuels via catalytic conversion of biomass-derived levulinic acid. Energy and Environmental Science, 2012, 5, 9690.	15.6	72
9	Process synthesis for addressing the sustainable energy systems and environmental issues. AIChE Journal, 2012, 58, 3370-3389.	1.8	49
10	Composite Metal-Oxide Nanocatalysts. ChemCatChem, 2012, 4, 1462-1484.	1.8	65
11	Dehydration of Carbohydrates to 5-Hydroxymethylfurfural in Ionic Liquids Catalyzed by Hexachlorotriphosphazene. Chinese Journal of Chemistry, 2012, 30, 2079-2084.	2.6	13
12	Development of Heterogeneous Catalysts for the Conversion of Levulinic Acid to γ -Valerolactone. ChemSusChem, 2012, 5, 1657-1667.	3.6	456
13	Methyl Ricinoleate as Platform Chemical for Simultaneous Production of Fine Chemicals and Polymer Precursors. ChemSusChem, 2012, 5, 2249-2254.	3.6	28
14	Selective Synthesis of 1-Alkyl(poly)glycerol Ethers by Catalytic Reductive Alkylation of Carboxylic Acids with a Recyclable Catalytic System. ChemSusChem, 2012, 5, 2397-2409.	3.6	41
15	Biodiesel biorefinery: opportunities and challenges for microbial production of fuels and chemicals from glycerol waste. Biotechnology for Biofuels, 2012, 5, 48.	6.2	186
16	CHAPTER 7. Biofuels and High Value Added Chemicals from Biomass Using Sustainably Prepared Metallic and Bimetallic Nanoparticles. RSC Green Chemistry, 2012, , 157-189.	0.0	0
17	Production of high quality fuels from lignocellulose-derived chemicals: a convenient C-C bond formation of furfural, 5-methylfurfural and aromatic aldehyde. RSC Advances, 2012, 2, 11211.	1.7	68
18	Entrainer-intensified vacuum reactive distillation process for the separation of 5-hydroxymethylfurfural from the dehydration of carbohydrates catalyzed by a metal salt-ionic liquid. Green Chemistry, 2012, 14, 1220.	4.6	66

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20	1,4:3,6-Dianhydrohexitols: Original platform for the design of biobased polymers using robust, efficient, and orthogonal chemistry. <i>Pure and Applied Chemistry</i> , 2012, 85, 511-520.	0.9	17
21	Thiol-promoted catalytic synthesis of diphenolic acid with sulfonated hyperbranched poly(arylene) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.2	64
22	Designing bimetallic catalysts for a green and sustainable future. <i>Chemical Society Reviews</i> , 2012, 41, 8099.	18.7	971
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25	From biomass to medicines. A simple synthesis of indolo[3,2-c]quinolines, antimalarial alkaloid isocryptolepine, and its derivatives. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7262.	1.5	60
26	Heterogeneous Bifunctional Metal/Acid Catalysts for Selective Chemical Processes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3807-3823.	1.0	65
27	Fast and Selective Sugar Conversion to Alkyl Lactate and Lactic Acid with Bifunctional Carbon-Silica Catalysts. <i>Journal of the American Chemical Society</i> , 2012, 134, 10089-10101.	6.6	337
29	Deoxygenation of Biomass-Derived Feedstocks: Oxorhenium-Catalyzed Deoxydehydration of Sugars and Sugar Alcohols. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8082-8086.	7.2	220
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32	Selective Oxidative Decarboxylation of Amino Acids to Produce Industrially Relevant Nitriles by Vanadium Chloroperoxidase. <i>ChemSusChem</i> , 2012, 5, 1199-1202.	3.6	58
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34	An Integrated Approach for the Production and Isolation of 5-Hydroxymethylfurfural from Carbohydrates. <i>ChemSusChem</i> , 2012, 5, 1388-1391.	3.6	83
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40	Recycling of bioplastics, their blends and biocomposites: A review. <i>European Polymer Journal</i> , 2013, 49, 2839-2858.	2.6	332
41	Graphene oxide as a facile acid catalyst for the one-pot conversion of carbohydrates into 5-ethoxymethylfurfural. <i>Green Chemistry</i> , 2013, 15, 2379.	4.6	150
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43	In situ ATR-IR study on aqueous phase reforming reactions of glycerol over a Pt/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2013, 205, 49-59.	2.2	34
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50	Catalytic Deoxydehydration of Glycols with Alcohol Reductants. <i>ChemSusChem</i> , 2013, 6, 597-599.	3.6	81
51	Conversion of fructose into 5-hydroxymethylfurfural and alkyl levulinates catalyzed by sulfonic acid-functionalized carbon materials. <i>Green Chemistry</i> , 2013, 15, 2895.	4.6	188
52	Catalytic conversion of biomass-derived levulinic acid to valerate esters as oxygenated fuels using supported ruthenium catalysts. <i>Green Chemistry</i> , 2013, 15, 2967.	4.6	123
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61	Brønsted Acid-Catalyzed One-Pot Synthesis of Indoles from o-Aminobenzyl Alcohols and Furans. <i>Journal of Organic Chemistry</i> , 2013, 78, 12144-12153.	1.7	44
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64	Sodium Ion Interactions with Aqueous Glucose: Insights from Quantum Mechanics, Molecular Dynamics, and Experiment. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1990-2000.	1.2	49
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84	Iridium-Catalyzed Hydrosilylative Reduction of Glucose to Hexane(s). <i>Journal of the American Chemical Society</i> , 2013, 135, 1225-1227.	6.6	76
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1042	Selective hydrogenolysis of tetrahydrofurfuryl alcohol on Pt/WO ₃ /ZrO ₂ catalysts: Effect of WO ₃ loading amount on activity. <i>Catalysis Today</i> , 2018, 303, 207-212.	2.2	40
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1309	Sulfonated carbon derived from the residue obtained after recovery of essential oil from the leaves of <i>Cinnamomum longepaniculatum</i> using Brønsted acid ionic liquid, and its use in the preparation of ellagic acid and gallic acid. <i>RSC Advances</i> , 2019, 9, 5142-5150.	1.7	14
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1312	Ag- and Cu-Promoted Mesoporous Ta-SiO ₂ Catalysts Prepared by Non-Hydrolytic Sol-Gel for the Conversion of Ethanol to Butadiene. <i>Catalysts</i> , 2019, 9, 920.	1.6	13

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1335	Online photoionization mass spectrometric evaluation of catalytic co-pyrolysis of cellulose and polyethylene over HZSM-5. <i>Bioresource Technology</i> , 2019, 275, 130-137.	4.8	34
1336	Biocatalytic Production of Amino Carbohydrates through Oxidoreductase and Transaminase Cascades. <i>ChemSusChem</i> , 2019, 12, 848-857.	3.6	32
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1345	Hierarchical K/LTL zeolite as solid base for aqueous phase hydrogenation of xylose to xylitol. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 70-80.	2.2	17
1346	Selective conversion of biomass-derived levulinic acid to ethyl levulinate catalyzed by metal organic framework (MOF)-supported polyoxometalates. <i>Applied Catalysis A: General</i> , 2019, 572, 168-175.	2.2	53
1347	Stimuli-Responsive Cellulose-Based Hydrogels. <i>Polymers and Polymeric Composites</i> , 2019, , 269-308.	0.6	3
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1352	Hydroxyapatite supported gold nanocatalyst for base-free oxidative esterification of 5-hydroxymethyl-2-furfural to 2,5-furan dimethylcarboxylate with air as oxidant. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 338-345.	2.9	24
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1355	One-Step Approach to 2,5-Diformylfuran from Fructose over Molybdenum Oxides Supported on Carbon Spheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 315-323.	3.2	27
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1369	Selective hydrogenation of furfural to furfuryl alcohol without external hydrogen over N-doped carbon confined Co catalysts. <i>Fuel Processing Technology</i> , 2020, 197, 106205.	3.7	60
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1377	Density Functional Theory Study of ZnIn ₂ S ₄ and CdIn ₂ S ₄ Polymorphs Using Full-Potential Linearized Augmented Plane Wave Method and Modified Becke-Johnson Potential. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900485.	0.7	19
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1382	Pentanoic acid from γ -valerolactone and formic acid using bifunctional catalysis. <i>Green Chemistry</i> , 2020, 22, 1171-1181.	4.6	33
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1388	Porous organic polymer supported PdAg bimetallic catalyst for the hydrodeoxygenation of lignin-derived species. <i>Renewable Energy</i> , 2020, 149, 600-608.	4.3	30
1389	Interfacial Structure-Determined Reaction Pathway and Selectivity for 5-(Hydroxymethyl)furfural Hydrogenation over Cu-Based Catalysts. <i>ACS Catalysis</i> , 2020, 10, 1353-1365.	5.5	118
1390	Amorphization and Semi-Dry Conversion of Crystalline Cellulose to Oligosaccharides by Impregnated Phosphoric Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 273-278.	2.0	9
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1397	Bamboo wastes catalytic pyrolysis with N-doped biochar catalyst for phenols products. <i>Applied Energy</i> , 2020, 260, 114242.	5.1	141
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1404	One-pot hydrodeoxygenation (HDO) of lignin monomers to C ₉ hydrocarbons co-catalysed by Ru/C and Nb ₂ O ₅ . <i>Green Chemistry</i> , 2020, 22, 7406-7416.	4.6	33
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1406	Lewis acid metal cations exchanged heteropoly salts as catalysts in β -pinene etherification. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 131, 875-887.	0.8	14
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1418	Production of furfural and levoglucosan from typical agricultural wastes via pyrolysis coupled with hydrothermal conversion: Influence of temperature and raw materials. <i>Waste Management</i> , 2020, 114, 43-52.	3.7	20
1419	Transformations of Biomass, Its Derivatives, and Downstream Chemicals over Ceria Catalysts. <i>ACS Catalysis</i> , 2020, 10, 8788-8814.	5.5	75
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1432	Heterogeneous catalysts for hydrothermal liquefaction of lignocellulosic biomass: A review. <i>Biomass and Bioenergy</i> , 2020, 140, 105662.	2.9	75
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1434	Photocatalytic transformations of lignocellulosic biomass into chemicals. <i>Chemical Society Reviews</i> , 2020, 49, 6198-6223.	18.7	374
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1440	Nickel-Catalysed Vapour-Phase Hydrogenation of Furfural, Insights into Reactivity and Deactivation. <i>Topics in Catalysis</i> , 2020, 63, 1446-1462.	1.3	18
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1885	Conversion of glucose to fructose over Sn and Ga-doped zeolite Y in methanol and water media. Applied Catalysis A: General, 2022, , 118689.	2.2	2
1886	Industrial sustainability in architectural paints - a bibliometric research. International Journal of Innovation and Technology Management, 0, , .	0.8	0
1887	Catalytic Transfer Hydrogenation of Biomass-Derived Furfural into Furfuryl Alcohol Over Zirconium Doped Nanofiber. SSRN Electronic Journal, 0, , .	0.4	0
1888	Highly efficient one-pot conversion of saccharides to 2,5-dimethylfuran using P-UiO-66 and Niâ€Co@NC noble metal-free catalysts. Green Chemistry, 2022, 24, 5070-5076.	4.6	11

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1890	Synthesis of Glycerol Carbonate from Glycerol and CO ₂ Using CaO as a Dehydrating Agent. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	1.3	0
1891	Preparation of Metal-Loaded ZSM-5 Zeolite Catalyst and Its Catalytic Effect on HMF Production from Biomass. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 4985-4998.	1.4	1
1892	Fast and Efficient Mechanosynthesis of Aldonamides by Aminolysis of Unprotected Sugar Lactones. <i>Sustainable Chemistry</i> , 2022, 3, 300-311.	2.2	3
1893	Improving the Glucose to Fructose Isomerization via Epitaxial Grafting of Niobium in UiO-66 Framework. <i>ChemCatChem</i> , 2022, 14, .	1.8	3
1894	Evolution Process of Humins Derived from Glucose. <i>ChemistrySelect</i> , 2022, 7, .	0.7	5
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1896	Biochemical synthesis for carbon derivatives. , 2022, , 55-70.		0
1897	Editorial: Biomass Resources Utilization. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	1
1898	Catalytic Hydrogenation of Biomass-Derived Furoic Acid to Tetrahydrofuroic Acid Derivatives over Pd/Co Catalyst in Water. <i>ChemCatChem</i> , 2022, 14, .	1.8	1
1899	Thermally Stable, Solvent Resistant, and Multifunctional Thermosetting Polymer Networks with High Mechanical Properties Prepared from Renewable Plant Phenols via Thiol-Ene Photo Click Chemistry. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5330-5340.	2.0	7
1900	Cobalt-Catalyzed Selective Transformation of Levulinic Acid and Amines into Pyrrolidines and Pyrrolidinones using Hydrogen. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 2830-2836.	2.1	10
1901	Sustainable Efficient Synthesis of Pyrrolidinones from Levulinic Acid over Pd/C Catalyst. <i>ChemistrySelect</i> , 2022, 7, .	0.7	2
1902	In situ construction of hierarchical Ag-decorated Cu nanowire arrays as an efficient and durable electrocatalyst for hydrogenation of 5-hydroxymethylfurfural and furfural. <i>Molecular Catalysis</i> , 2022, 528, 112487.	1.0	8
1903	Tuning the Cu/SiO ₂ wettability features for bio-derived platform molecules valorization. <i>Molecular Catalysis</i> , 2022, 528, 112462.	1.0	1
1904	Surface modified porous silica-alumina glasses with enhanced hydrothermal stability for biomass conversion. <i>Materials Chemistry and Physics</i> , 2022, 289, 126504.	2.0	1
1905	Green solvents in polymeric membrane fabrication: A review. <i>Separation and Purification Technology</i> , 2022, 298, 121691.	3.9	32
1906	Hydrogenation of biomass lactones to diols over Cu ₂ X/Al ₂ O ₃ catalysts: The promoting role of LaOx. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121689.	10.8	6

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1908	Recent advances in continuous reduction of furfural to added value chemicals. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, , 100655.	3.2	6
1909	Defect-Guided Synthesis of Hierarchical Sn-B-Beta Zeolite with Highly Exposed Sn Sites. <i>Inorganic Chemistry</i> , 2022, 61, 11939-11948.	1.9	2
1910	Selective hydrodeoxygenation of 5-hydroxymethylfurfural (HMF) to 2,5-dimethylfuran (DMF) over carbon supported copper catalysts using isopropyl alcohol as a hydrogen donor. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121790.	10.8	23
1911	Influence of Sn Content in Sn- β on Selective Production of Methyl Lactate from Glucose. <i>Catalysis Letters</i> , 0, , .	1.4	1
1912	Visible-Light-Induced Decarboxylative Alkynylation of Carboxylic in Batch and Continuous Flow. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1913	Soybean Oil Epoxidation Catalyzed by a Functionalized Metal-Organic Framework with Active Dioxo-Molybdenum (VI) Centers. <i>Catalysis Letters</i> , 2023, 153, 1756-1772.	1.4	2
1914	Enhanced cello-oligosaccharides production from cellulose hydrolysis in molten salt hydrate over lignin-based hyper-cross-linked polymer (LHCP) adsorption. <i>Applied Catalysis A: General</i> , 2022, 644, 118808.	2.2	5
1915	Advances in catalytic valorization of cellulose into value-added chemicals and fuels over heterogeneous catalysts. <i>Catalysis Today</i> , 2023, 408, 92-110.	2.2	13
1916	In-situ synthesis of Ru-WOX/biochar catalyst for conversion of cellulose toward ethylene glycol. <i>Cellulose</i> , 2022, 29, 8195-8211.	2.4	2
1917	Perovskite Supported Catalysts for the Selective Oxidation of Glycerol to Tartronic Acid. <i>Catalysis Letters</i> , 0, , .	1.4	1
1918	Electrophotochemical Decarboxylative Azidation of Aliphatic Carboxylic Acids. <i>ACS Catalysis</i> , 2022, 12, 10661-10667.	5.5	26
1919	Realizing direct conversion of glucose to furfurals with tunable selectivity utilizing a carbon dot catalyst with dual acids controlled by a biphasic medium. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	5
1920	Mechanistic Insights and Rational Design of Ca-Doped CeO ₂ Catalyst for Acetic Acid Ketonization. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 11068-11077.	3.2	3
1921	Conversion of Cellulose into 5-Hydroxymethylfurfural in a Biphasic System Catalyzed by Aluminum Sulfate and Byproduct Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 10444-10456.	3.2	14
1922	Selective oxidation of 5-hydroxymethylfurfural into 2,5-diformylfuran by TEMPO-assisted magnetic Fe ₃ O ₄ @SiO ₂ @mSiO ₂ -NH ₂ -Cu(II) catalytic system. <i>Molecular Catalysis</i> , 2022, 530, 112622.	1.0	2
1923	Influence of graphite particles in UV-curable corrosion protection coating from palm oil based urethane acrylate (POBUA). <i>Industrial Crops and Products</i> , 2022, 187, 115436.	2.5	2
1924	Valorization of waste biomass through fungal technology: Advances, challenges, and prospects. <i>Industrial Crops and Products</i> , 2022, 188, 115608.	2.5	5

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1926	Greener approach for the synthesis of nitrovinylfurans from biomass-derived 5-hydroxymethylfurfural as selective antiproliferative agents. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 30, 100828.	1.6	0
1927	Catalytic transfer hydrogenation of biomass-derived furfural into furfuryl alcohol over zirconium doped nanofiber. <i>Fuel</i> , 2023, 331, 125792.	3.4	8
1928	Site isolated Ru clusters and sulfoacids in a yolk-shell nanoreactor towards cellulose valorization to 1,2-propylene glycol. <i>Chemical Engineering Journal</i> , 2023, 452, 139206.	6.6	6
1929	Magnetically-separable cobalt catalyst embedded in metal nitrate-promoted hierarchically porous N-doped carbon nanospheres for hydrodeoxygenation of lignin-derived species. <i>Fuel</i> , 2023, 331, 125917.	3.4	8
1930	Efficient Conversion of Furfural to Furfural Amine Over 4ru1co/Ac Catalyst. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1931	Cobalt-catalyzed synthesis of aryl ketones and aldehydes from redox-active esters. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 6554-6557.	1.5	0
1932	Insights into the molecular mechanism of a new efficient whole-cell biocatalyst <i>Enterobacter ludwigii</i> YYP3 in 5-hydroxymethylfurfural reduction. <i>Green Chemistry</i> , 0, , .	4.6	3
1933	Bio-based 1,4-butanediol and tetrahydrofuran synthesis: perspective. <i>Green Chemistry</i> , 2022, 24, 6450-6466.	4.6	22
1934	An Efficient Lignin Depolymerization Process for Phenolic Products Via Synergistic Effects between Lignin-Based Multi-Active Site Catalysts and Mixed-Solvents. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1935	Site Isolated Ru Clusters and Sulfoacids in a Yolk-Shell Nanoreactor Towards Cellulose Valorization to 1,2-Propylene Glycol. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1936	Perspectives and challenges in using bio-based flame retardants. , 2022, , 451-466.		0
1937	Cellulose hydrogenolysis to alcohol and ketone products using Co@C catalysts in the phosphoric acid aqueous solution. <i>Reaction Chemistry and Engineering</i> , 2022, 8, 64-76.	1.9	1
1938	Au/Sn-Beta catalyst with metal-Lewis acid cooperative sites steers aerobic oxidation of 5-hydroxymethylfurfural. <i>Applied Surface Science</i> , 2023, 608, 155154.	3.1	9
1939	Multigram Synthesis of Pure HMF and BHMF. <i>Organic Process Research and Development</i> , 2022, 26, 2830-2838.	1.3	17
1940	Synthesis, biological evaluation and molecular modeling studies of novel 1,2,3-triazole-linked menadione-furan derivatives as P2X7 inhibitors. <i>Journal of Bioenergetics and Biomembranes</i> , 2022, 54, 227-239.	1.0	7
1941	Waste Biomass Selective and Sustainable Photooxidation to High-Added-Value Products: A Review. <i>Catalysts</i> , 2022, 12, 1091.	1.6	7
1942	Preparation of Biomass-Derived Furfuryl Acetals by Transacetalization Reactions Catalyzed by Nanoporous Aluminosilicates. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 13759-13764.	3.2	5

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1944	Natural weathering of spruce wood chemically modified by re-used ϵ -caprolactone solution. <i>Coloration Technology</i> , 2023, 139, 265-275.	0.7	2
1945	Advances in Catalytic Asymmetric Reactions Using 2-Indolylmethanols as Platform Molecules. <i>Chinese Journal of Organic Chemistry</i> , 2022, 42, 3351.	0.6	38
1946	Microwave-assisted decarboxylative reactions: advanced strategies for sustainable organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 8569-8583.	1.5	3
1947	Biohydrogen Production Technologies: Past, Present, and Future Perspective. <i>Microorganisms for Sustainability</i> , 2022, , 185-205.	0.4	1
1948	Ag substituted Au clusters supported on Mg-Al-hydrotalcite for highly efficient base-free aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. <i>Green Chemistry</i> , 2022, 24, 8840-8852.	4.6	7
1950	Visible-light-induced decarboxylative alkynylation of carboxylic acids in batch and continuous flow. <i>Green Synthesis and Catalysis</i> , 2024, 5, 20-24.	3.7	2
1951	Preparation of bio-based elastomer and its nanocomposites based on dimethyl itaconate with versatile properties. <i>Composites Part B: Engineering</i> , 2023, 248, 110383.	5.9	12
1952	Deaminative Arylation and Alkenylation of Aliphatic Tertiary Amines with Aryl and Alkenylboronic Acids via Nitrogen Ylides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
1953	Efficient conversion of furfural to furfural amine over 4Ru1Co/AC catalyst. <i>Applied Catalysis A: General</i> , 2022, 647, 118902.	2.2	3
1954	Polymers without Petrochemicals: Sustainable Routes to Conventional Monomers. <i>Chemical Reviews</i> , 2023, 123, 2609-2734.	23.0	53
1955	Deaminative Arylation or Alkenylation of Aliphatic Tertiary Amines with Aryl or Alkenylboronic Acids via Nitrogen Ylides. <i>Angewandte Chemie</i> , 0, , .	1.6	0
1956	Catalyst Deactivation and Its Mitigation during Catalytic Conversions of Biomass. <i>ACS Catalysis</i> , 2022, 12, 13555-13599.	5.5	17
1957	Hydrogenation of levulinic acid to gamma-valerolactone over nickel supported organoclay catalyst. <i>Catalysis Today</i> , 2023, 408, 36-49.	2.2	6
1958	Introduction of acid mine drainage in the direct production of 5-hydroxymethylfurfural from raw biomass and expanding the use of biomass conversion residue. <i>Bioresource Technology</i> , 2022, 364, 128094.	4.8	3
1959	Application of thermogravimetric analysis method for the characterisation of products from triglycerides during biodiesel production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 168, 105766.	2.6	9
1960	Bio-based poly(decylene terephthalate-co-decylene furandicarboxylate)s derived from 2,5-furandicarboxylic acid (FDCA): Synthesis and properties. <i>Reactive and Functional Polymers</i> , 2022, 181, 105446.	2.0	2
1961	A comprehensive review on biomass humification: Recent advances in pathways, challenges, new applications, and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 170, 112984.	8.2	32

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1963	Fast and continuous conversion of xylose to furfural in micropacked bed reactors. <i>Chemical Engineering Science</i> , 2023, 266, 118256.	1.9	4
1964	Comparative life cycle environmental, exergetic, and economic assessment of three hydrocarbon-based ethylene production routes. <i>Fuel</i> , 2023, 333, 126359.	3.4	8
1965	Highly Efficient Conversion of Carbohydrates into Formic Acid with a Heterogeneous MgO Catalyst at Near-Ambient Temperatures. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 15423-15436.	3.2	6
1966	A Photoinduced, Nickel-Catalyzed Reaction for the Stereoselective Assembly of <i>α</i> -Linked Glycosides and Glycopeptides. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
1967	A Photoinduced, Nickel-Catalyzed Reaction for the Stereoselective Assembly of <i>α</i> -Linked Glycosides and Glycopeptides. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	15
1968	A Green Synthesis of 5,5'-[Oxybis(methylene)]bis-2-Furfural: from By-Product to Attractive Bio-Based Platform Chemical. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	6
1969	Boosting the Catalytic Activity and Stability of Ru Metal Clusters in Hydrodeoxygenation of Guaiacol through MWW Zeolite Pore Constraints. <i>ACS Catalysis</i> , 2022, 12, 14717-14726.	5.5	15
1970	Constructing core-shell structured Au/Sn ²⁺ @mesosilica composite for one-pot base-free conversion of glycerol to methyl lactate. <i>Microporous and Mesoporous Materials</i> , 2023, 347, 112348.	2.2	4
1971	Reductive Catalytic Fractionation of Spruce Wood over Ru/C Bifunctional Catalyst in the Medium of Ethanol and Molecular Hydrogen. <i>Catalysts</i> , 2022, 12, 1384.	1.6	9
1972	Combined conversion of lignocellulosic biomass into high-value products with ultrasonic cavitation and photocatalytic produced reactive oxygen species – A review. <i>Bioresource Technology</i> , 2023, 368, 128333.	4.8	18
1973	Chapter 10. Oleochemicals as Green Corrosion Inhibitors. <i>RSC Green Chemistry</i> , 2022, , 225-238.	0.0	0
1974	Single pot selective conversion of furfural into 2-methylfuran over a Co-CoOx/AC bifunctional catalyst. <i>Applied Surface Science</i> , 2023, 612, 155871.	3.1	5
1975	Recent Progress of Hydrogenation and Hydrogenolysis Catalysts Derived from Layered Double Hydroxides. <i>Catalysts</i> , 2022, 12, 1484.	1.6	2
1976	Synthesis of Divinyl Ether from 5-Hydroxymethylfurfural (5-HMF) and Calcium Carbide. <i>Russian Journal of General Chemistry</i> , 2022, 92, 2507-2510.	0.3	0
1977	Progress and Outlook of Solar-Powered Biomass for Biorefineries: A Minireview. <i>Energy & Fuels</i> , 2022, 36, 14573-14583.	2.5	8
1978	Valorization of the Wheat Bran C5 Fraction Using Ru/ZrO ₂ -MCM48 Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 16324-16334.	3.2	3
1979	Ruthenium Pincer-Catalyzed Selective Synthesis of Alkanes and Alkenes via Deoxygenative Coupling of Primary Alcohols. <i>Organometallics</i> , 2023, 42, 55-61.	1.1	1

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1981	Sn doping on partially dealuminated Beta zeolite by solid state ion exchange for 5-hydroxymethylfurfural (5-HMF) production from glucose. <i>Journal of Chemical Technology and Biotechnology</i> , 2023, 98, 773-781.	1.6	1
1982	Selective hydrodeoxygenation of lignin-derived phenols to alkyl cyclohexanols over highly dispersed RuFe bimetallic catalysts. <i>Fuel</i> , 2023, 339, 126916.	3.4	10
1983	Photoinduced Ligand-to-Metal Charge Transfer of Carboxylates: Decarboxylative Functionalizations, Lactonizations, and Rearrangements. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 4189-4230.	2.1	21
1984	Electrocatalytic oxidation of 5-hydroxymethylfurfural for sustainable 2,5-furandicarboxylic acid production—From mechanism to catalysts design. <i>SusMat</i> , 2023, 3, 21-43.	7.8	22
1985	Unravelling and overcoming the challenges in the electrocatalytic reduction of fructose to sorbitol. <i>Green Chemistry</i> , 2023, 25, 1658-1671.	4.6	4
1986	Synthesis of unsymmetrical NH-pyrroles from biomass feedstock in the confined space of metal-organic frameworks. <i>Green Chemistry</i> , 2023, 25, 915-921.	4.6	3
1987	Ï-Facial selectivity in the Diels-Alder reaction of glucosamine-based chiral furans and maleimides. <i>Organic and Biomolecular Chemistry</i> , 0, , .	1.5	2
1988	H4PMo11VO40-Catalyzed Î²-Citronellal Condensation Reactions. <i>Catalysis Letters</i> , 0, , .	1.4	0
1989	Recent advances in the photocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	2
1990	Process coupling of CO ₂ reduction and 5-HMF oxidation mediated by defect-enriched layered double hydroxides. <i>Dalton Transactions</i> , 2023, 52, 1950-1961.	1.6	4
1991	Electrophotochemical Metal-Catalyzed Enantioselective Decarboxylative Cyanation. <i>Chemistry - A European Journal</i> , 2023, 29, .	1.7	9
1992	Reticular Coordination Induced Interfacial Interstitial Carbon Atoms on Ni Nanocatalysts for Highly Selective Hydrogenation of Bio-Based Furfural under Facile Conditions. <i>Nanomaterials</i> , 2023, 13, 285.	1.9	2
1993	Ni-based Electro/Photo-Catalysts in HER — A Review. <i>Surfaces and Interfaces</i> , 2023, 36, 102619.	1.5	2
1994	Production of solid fuel in the vacuum distillation of bio-oil. <i>Fuel Processing Technology</i> , 2023, 242, 107618.	3.7	2
1995	Synthesis, Thermal Behavior, and Mechanical Properties of Fully Biobased Poly(Hexamethylene) Tj ETQq1 1 0.784314.rgBT /Overlock 10	2.0	6
1996	Aldehyde Hydrogenation by Pt/TiO ₂ Catalyst in Aqueous Phase: Synergistic Effect of Oxygen Vacancy and Solvent Water. <i>Jacs Au</i> , 2023, 3, 143-153.	3.6	5
1997	Catalytic isomerization of glucose to fructose over organic ligands: a DFT study. <i>Journal of Molecular Modeling</i> , 2023, 29, .	0.8	0

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1999	New insights into the base catalyzed depolymerization of technical lignins: a systematic comparison. <i>RSC Advances</i> , 2023, 13, 4898-4909.	1.7	0
2000	Research advancement in molten salt-mediated thermochemical upcycling of biomass waste. <i>Green Chemistry</i> , 2023, 25, 2087-2108.	4.6	7
2001	Selective and Efficient Synthesis of Pine Sterol Esters Catalyzed by Deep Eutectic Solvent. <i>Molecules</i> , 2023, 28, 993.	1.7	1
2002	Flow-through reductive catalytic fractionation of beech wood sawdust. , 2023, 1, 459-469.		3
2003	Agricultural waste: Sustainable valuable products. , 2023, , 155-178.		0
2004	Catalytic transformations for agro-waste conversion to 5-hydroxymethylfurfural and furfural: Chemistry and scale-up development. <i>Green Chemistry</i> , 2023, 25, 849-870.	4.6	8
2005	Operando Forming of Lattice Vacancy Defect in Ultrathin Crumpled NiVWâ€Layered Metal Hydroxides Nanosheets for Valorization of Biomass. <i>Small</i> , 2023, 19, .	5.2	12
2006	Plasmon Enhanced Nickel(II) Catalyst for Photocatalytic Lignin Model Cleavage. , 2023, 1, 1-10.		1
2007	Catalytic performance of CoMoW Sulfide catalysts supported on hierarchically structured porous silicas for HDS reactions. <i>Chemical Engineering Journal Advances</i> , 2023, 14, 100454.	2.4	0
2008	The importance of constructing Triple-functional Sr ₂ P ₂ O ₇ /Ni ₂ P catalysts for smoothing hydrogenation Ring-rearrangement of Biomass-derived Furfural compounds in water. <i>Journal of Catalysis</i> , 2023, 421, 117-133.	3.1	13
2009	Synergistic effect of tung oil and heat treatment on surface characteristics and dimensional stability of wood. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 665, 131233.	2.3	6
2010	Recent progress of metal single-atom catalysts for energy applications. <i>Nano Energy</i> , 2023, 111, 108404.	8.2	37
2011	Catalytically efficient Co-CoO _x -Al ₂ O ₃ interface for mild temperature fatty alcohol production via fatty acid transfer hydrogenation. <i>Fuel</i> , 2023, 345, 128136.	3.4	3
2012	Photoreforming of Waste Polymers for Sustainable Hydrogen Fuel and Chemicals Feedstock: Waste to Energy. <i>Chemical Reviews</i> , 2023, 123, 4443-4509.	23.0	47
2013	Sustainable production of bio-propionic acid: synergy between vacancy and thermoelectron in MoS ₂ /MoO ₃ composite-enhanced hydrodeoxygenation of lactic acid. <i>Catalysis Science and Technology</i> , 2023, 13, 1221-1232.	2.1	5
2014	Ocean Resources for the Production of Renewable Chemicals and Materials. , 2014, , 443-458.		1
2015	Solar Photochemical Manufacturing of Fine Chemicals: Historical Background, Modern Solar Technologies, Recent Applications and Future Challenges. , 2014, , 158-191.		0

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2017	High-Yield Synthesis of 1-Hydroxyhexane-2,5-dione via Hydrogenation/Hydrolysis of 5-Hydroxymethyl-furfural in Ionic Liquid-Assisted Multi-Phase Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 2520-2530.	3.2	1
2018	Biomass-Derived Materials for Interface Engineering in Organic/Perovskite Photovoltaic and Light-Emitting Devices. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	6
2019	Reductive Catalytic Fractionation of Abies Wood into Bioliquids and Cellulose with Hydrogen in an Ethanol Medium over NiCuMo/SiO ₂ Catalyst. <i>Catalysts</i> , 2023, 13, 413.	1.6	2
2020	Optimization of Alkaline Extraction of Xylan-Based Hemicelluloses from Wheat Straws: Effects of Microwave, Ultrasound, and Freeze-Thaw Cycles. <i>Polymers</i> , 2023, 15, 1038.	2.0	3
2021	An Efficient Strategy for Chemoenzymatic Conversion of Corn Stover to Furfuryl Alcohol in Deep Eutectic Solvent ChCl:PEG10000-Water Medium. <i>Catalysts</i> , 2023, 13, 467.	1.6	2
2022	Lipids: Valorization of biomass for lipids production. , 2023, , 87-111.		0
2023	Recent Advances in the Efficient Synthesis of Useful Amines from Biomass-Based Furan Compounds and Their Derivatives over Heterogeneous Catalysts. <i>Catalysts</i> , 2023, 13, 528.	1.6	1
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