Xianhai Zeng

List of Publications by Year
in descending order

181 papers	6,108 citations	66234 42 h-index	95083 68 g-index
188 all docs	188 docs citations	188 times ranked	5449 citing authors

#	Article	IF	Citations
1	Conversion of biomass to Î^3-valerolactone by catalytic transfer hydrogenation of ethyl levulinate over metal hydroxides. Applied Catalysis B: Environmental, 2014, 147, 827-834.	10.8	285
2	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2696-2706.	3.6	269
3	Production of Î^3-valerolactone from lignocellulosic biomass for sustainable fuels and chemicals supply. Renewable and Sustainable Energy Reviews, 2014, 40, 608-620.	8.2	232
4	Phycobiliprotein: Potential microalgae derived pharmaceutical and biological reagent. Biochemical Engineering Journal, 2016, 109, 282-296.	1.8	225
5	Microalgae bioengineering: From CO2 fixation to biofuel production. Renewable and Sustainable Energy Reviews, 2011, 15, 3252-3260.	8.2	222
6	Chemoselective hydrogenation of biomass derived 5-hydroxymethylfurfural to diols: Key intermediates for sustainable chemicals, materials and fuels. Renewable and Sustainable Energy Reviews, 2017, 77, 287-296.	8.2	165
7	Catalytic transfer hydrogenation of biomass-derived 5-hydroxymethyl furfural to the building block 2,5-bishydroxymethyl furan. Green Chemistry, 2016, 18, 1080-1088.	4.6	136
8	Green process for production of 5-hydroxymethylfurfural from carbohydrates with high purity in deep eutectic solvents. Industrial Crops and Products, 2017, 99, 1-6.	2.5	109
9	Earth-abundant 3d-transition-metal catalysts for lignocellulosic biomass conversion. Chemical Society Reviews, 2021, 50, 6042-6093.	18.7	104
10	Vitamin C-Assisted Synthesized Mnâ€“Co Oxides with Improved Oxygen Vacancy Concentration: Boosting Lattice Oxygen Activity for the Air-Oxidation of 5-(Hydroxymethyl)furfural. ACS Catalysis, 2021, 11, 7828-7844.	5.5	103
11	Autotrophic cultivation of Spirulina platensis for CO2 fixation and phycocyanin production. Chemical Engineering Journal, 2012, 183, 192-197.	6.6	97
12	Harvesting of freshwater microalgae with microbial bioflocculant: a pilot-scale study. Biotechnology for Biofuels, 2016, 9, 47.	6.2	96
13	Catalytic transfer hydrogenation of biomass-derived furfural to furfuryl alcohol over in-situ prepared nano Cu-Pd/C catalyst using formic acid as hydrogen source. Journal of Catalysis, 2018, 368, 69-78.	3.1	95
14	Fed-batch strategy for enhancing cell growth and C-phycocyanin production of Arthrospira (Spirulina) platensis under phototrophic cultivation. Bioresource Technology, 2015, 180, 281-287.	4.8	84
15	Extraction of cellulose nanocrystals using a recyclable deep eutectic solvent. Cellulose, 2020, 27, 1301-1314.	2.4	84
16	Renewable and robust biomass carbon aerogel derived from deep eutectic solvents modified cellulose nanofiber under a low carbonization temperature for oil-water separation. Separation and Purification Technology, 2021, 254, 117577.	3.9	73
17	Efficient Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran over Fe₂O₃-Promoted MnO₂ Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 7812-7822.	3.2	71
18	An effective pathway for converting carbohydrates to biofuel 5-ethoxymethylfurfural via 5-hydroxymethylfurfural with deep eutectic solvents (DESs). Industrial Crops and Products, 2018, 112, 18-23.	2.5	69

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19	Harvesting of microalgae Desmodesmus sp. F51 by bioflocculation with bacterial bioflocculant. Algal Research, 2014, 6, 186-193.	2.4	66
20	Bioprocess considerations for microalgal-based wastewater treatment and biomass production. Renewable and Sustainable Energy Reviews, 2015, 42, 1385-1392.	8.2	64
21	Microalgae biomass harvesting by bioflocculation-interpretation by classical DLVO theory. Biochemical Engineering Journal, 2015, 101, 160-167.	1.8	62
22	Inâ€…Situ Generated Catalyst System to Convert Biomassâ€Derived Levulinic Acid to Î³â€Valerolactone. ChemCatChem, 2015, 7, 1372-1379.	1.8	62
23	Depolymerization of Cellulolytic Enzyme Lignin for the Production of Monomeric Phenols over Raney Ni and Acidic Zeolite Catalysts. Energy & Fuels, 2015, 29, 1662-1668.	2.5	61
24	Flotation: A promising microalgae harvesting and dewatering technology for biofuels production. Biotechnology Journal, 2016, 11, 315-326.	1.8	61
25	Enhancement of cell growth and phycocyanin production in Arthrospira (Spirulina) platensis by metabolic stress and nitrate fed-batch. Bioresource Technology, 2018, 255, 293-301.	4.8	61
26	Maltodextrin: A consummate carrier for spray-drying of xylooligosaccharides. Food Research International, 2018, 106, 383-393.	2.9	59
27	Catalytic transfer hydrogenation of biomass-derived 5-hydroxymethylfurfural into 2,5-bis(hydroxymethyl)furan over tunable Zr-based bimetallic catalysts. Catalysis Science and Technology, 2018, 8, 4474-4484.	2.1	58
28	Eco-friendly polymer nanocomposite hydrogel enhanced by cellulose nanocrystal and graphitic-like carbon nitride nanosheet. Chemical Engineering Journal, 2020, 386, 124021.	6.6	58
29	Microalgae for biobutanol production â€“ Technology evaluation and value proposition. Algal Research, 2018, 31, 367-376.	2.4	57
30	Inâ€…Situ Catalytic Hydrogenation of Biomassâ€Derived Methyl Levulinate to Î³â€Valerolactone in Methanol. ChemSusChem, 2015, 8, 1601-1607.	3.6	56
31	Insights into the active sites and catalytic mechanism of oxidative esterification of 5-hydroxymethylfurfural by metal-organic frameworks-derived N-doped carbon. Journal of Catalysis, 2020, 381, 570-578.	3.1	56
32	Cascade conversion of furfural to fuel bioadditive ethyl levulinate over bifunctional zirconium-based catalysts. Renewable Energy, 2020, 147, 916-923.	4.3	54
33	Cu¹â€“Cu⁰ bicomponent CuNPs@ZIF-8 for highly selective hydrogenation of biomass derived 5-hydroxymethylfurfural. Green Chemistry, 2019, 21, 4319-4323.	4.6	52
34	Cellulose nanocrystalline hydrogel based on a choline chloride deep eutectic solvent as wearable strain sensor for human motion. Carbohydrate Polymers, 2021, 255, 117443.	5.1	52
35	Development of a Two-Stage Microalgae Dewatering Process â€“ A Life Cycle Assessment Approach. Frontiers in Plant Science, 2016, 7, 113.	1.7	50
36	Catechol-based all-wood hydrogels with anisotropic, tough, and flexible properties for highly sensitive pressure sensing. Chemical Engineering Journal, 2022, 427, 131896.	6.6	48

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37	Catalytic Transfer Hydrogenolysis/Hydrogenation of Biomass-Derived 5-Formyloxymethylfurfural to 2, 5-Dimethylfuran Over Niâ€“Cu Bimetallic Catalyst with Formic Acid As a Hydrogen Donor. Industrial & Engineering Chemistry Research, 2019, 58, 5414-5422.	1.8	47
38	Vertically-Oriented Ti₃C₂T_{<i>x</i>} MXene Membranes for High Performance of Electrokinetic Energy Conversion. ACS Nano, 2020, 14, 16654-16662.	7.3	47
39	Stretchable, freezing-tolerant conductive hydrogel for wearable electronics reinforced by cellulose nanocrystals toward multiple hydrogen bonding. Carbohydrate Polymers, 2022, 280, 119018.	5.1	47
40	Selective Electrocatalytic Oxidation of Biomassâ€Derived 5â€Hydroxymethylfurfural to 2,5â€Diformylfuran: from Mechanistic Investigations to Catalyst Recovery. ChemSusChem, 2020, 13, 3127-3136.	3.6	45
41	Effective selectivity conversion of glucose to furan chemicals in the aqueous deep eutectic solvent. Renewable Energy, 2021, 164, 23-33.	4.3	43
42	Inducing Electron Dissipation of Pyridinic N Enabled by Single Niâ€“N₄ Sites for the Reduction of Aldehydes/Ketones with Ethanol. ACS Catalysis, 2021, 11, 6398-6405.	5.5	43
43	NaCSâ€“PDMDAAC immobilized autotrophic cultivation of Chlorella sp. for wastewater nitrogen and phosphate removal. Chemical Engineering Journal, 2012, 187, 185-192.	6.6	42
44	Green catalytic conversion of bio-based sugars to 5-chloromethyl furfural in deep eutectic solvent, catalyzed by metal chlorides. RSC Advances, 2016, 6, 27004-27007.	1.7	42
45	Synthesis of MCMâ€41â€Supported Metal Catalysts in Deep Eutectic Solvent for the Conversion of Carbohydrates into 5â€Hydroxymethylfurfural. ChemSusChem, 2019, 12, 978-982.	3.6	42
46	Development of Betaineâ€Based Sustainable Catalysts for Green Conversion of Carbohydrates and Biomass into 5â€Hydroxymethylfurfural. ChemSusChem, 2019, 12, 495-502.	3.6	42
47	Catalytic Conversion of Biomass to Furanic Derivatives with Deep Eutectic Solvents. ChemSusChem, 2021, 14, 1496-1506.	3.6	42
48	Conversion of Biomass-Derived Furfuryl Alcohol into Ethyl Levulinate Catalyzed by Solid Acid in Ethanol. BioResources, 2014, 9, 2634-2644.	0.5	41
49	A flexible Cu-based catalyst system for the transformation of fructose to furanyl ethers as potential bio-fuels. Applied Catalysis B: Environmental, 2019, 258, 117793.	10.8	41
50	Interspecific dominance and asymmetric competition with respect to nesting habitats between two snowfinch species in a highâ€altitude extreme environment. Ecological Research, 2009, 24, 607-616.	0.7	40
51	Recent advances on sustainable cellulosic materials for pharmaceutical carrier applications. Carbohydrate Polymers, 2020, 244, 116492.	5.1	40
52	Enhancing total fatty acids and arachidonic acid production by the red microalgae Porphyridium purpureum. Bioresources and Bioprocessing, 2016, 3, .	2.0	39
53	Efficient synthesis of bio-monomer 2,5-furandicarboxylic acid from concentrated 5-hydroxymethylfurfural or fructose in DMSO/H2O mixed solvent. Journal of Industrial and Engineering Chemistry, 2019, 77, 209-214.	2.9	38
54	Catalyst design strategy toward the efficient heterogeneously-catalyzed selective oxidation of 5-hydroxymethylfurfural. Green Energy and Environment, 2022, 7, 900-932.	4.7	38

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55	Stability of Soluble Dialdehyde Cellulose and the Formation of Hollow Microspheres: Optimization and Characterization. ACS Sustainable Chemistry and Engineering, 2019, 7, 2151-2159.	3.2	37
56	Phosphate limitation promotes unsaturated fatty acids and arachidonic acid biosynthesis by microalgae Porphyridium purpureum. Bioprocess and Biosystems Engineering, 2016, 39, 1129-1136.	1.7	36
57	Cooking with Active Oxygen and Solid Alkali: A Promising Alternative Approach for Lignocellulosic Biorefineries. ChemSusChem, 2017, 10, 3982-3993.	3.6	36
58	Efficient synthesis of glucose into 5-hydroxymethylfurfural with SO42âˆ'/ZrO2 modified H+ zeolites in different solvent systems. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 431-438.	2.7	35
59	Catalytic transfer hydrogenation of biomass-derived furfural to furfuryl alcohol with formic acid as hydrogen donor over CuCs-MCM catalyst. Chinese Chemical Letters, 2021, 32, 1186-1190.	4.8	34
60	Stable and efficient CuCr catalyst for the solvent-free hydrogenation of biomass derived ethyl levulinate to Î³-valerolactone as potential biofuel candidate. Fuel, 2016, 175, 232-239.	3.4	33
61	Oxidative Esterification of 5â€Hydroxymethylfurfural with an Nâ€doped Carbonâ€supported CoCu Bimetallic Catalyst. ChemSusChem, 2020, 13, 4151-4158.	3.6	33
62	Preparation of 5â€(Aminomethyl)â€2â€furanmethanol by direct reductive amination of 5â€Hydroxymethylfurfural with aqueous ammonia over the Ni/SBAâ€15 catalyst. Journal of Chemical Technology and Biotechnology, 2018, 93, 3028-3034.	1.6	32
63	Preparation of Nanocellulose with High-Pressure Homogenization from Pretreated Biomass with Cooking with Active Oxygen and Solid Alkali. ACS Sustainable Chemistry and Engineering, 2019, 7, 9378-9386.	3.2	32
64	Novel Process for the Extraction of Ethyl Levulinate by Toluene with Less Humins from the Ethanolysis Products of Carbohydrates. Energy & Fuels, 2014, 28, 4251-4255.	2.5	31
65	Ammonium chloride: a novel effective and inexpensive salt solution for phycocyanin extraction from Arthrospira (Spirulina) platensis. Journal of Applied Phycology, 2017, 29, 1261-1270.	1.5	31
66	Highly Flexible and Broad-Range Mechanically Tunable All-Wood Hydrogels with Nanoscale Channels via the Hofmeister Effect for Human Motion Monitoring. Nano-Micro Letters, 2022, 14, 84.	14.4	31
67	Aqueousâ€Natural Deep Eutectic Solventâ€Enhanced 5â€Hydroxymethylfurfural Production from Glucose, Starch, and Food Wastes. ChemSusChem, 2022, 15, .	3.6	30
68	One-pot conversion of biomass-derived carbohydrates into 5-[(formyloxy)methyl]furfural: A novel alternative platform chemical. Industrial Crops and Products, 2016, 83, 408-413.	2.5	29
69	Synthesis of bis(amino)furans from biomass based 5-hydroxymethyl furfural. Journal of Energy Chemistry, 2018, 27, 209-214.	7.1	28
70	Oxidation of 5-[(Formyloxy)methyl]furfural to Maleic Anhydride with Atmospheric Oxygen Using Î±-MnO₂/Cu(NO₃)₂ as Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 7901-7908.	3.2	28
71	Manganese catalyzed transfer hydrogenation of biomass-derived aldehydes: Insights to the catalytic performance and mechanism. Journal of Catalysis, 2020, 389, 157-165.	3.1	28
72	Highly dispersed Co/N-rich carbon nanosheets for the oxidative esterification of biomass-derived alcohols: Insights into the catalytic performance and mechanism. Journal of Catalysis, 2021, 397, 148-155.	3.1	28

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73	Reproductive ecology of Brown-cheeked Laughing Thrushes (Garrulax henrici) in Tibet. Journal of Field Ornithology, 2008, 79, 152-158.	0.3	26
74	Cooking with active oxygen and solid alkali facilitates lignin degradation in bamboo pretreatment. Sustainable Energy and Fuels, 2018, 2, 2206-2214.	2.5	26
75	Recent progress in the development of advanced biofuel 5-ethoxymethylfurfural. BMC Energy, 2020, 2, .	6.3	25
76	Stable and Biocompatible Cellulose-Based CaCO₃ Microspheres for Tunable pH-Responsive Drug Delivery. ACS Sustainable Chemistry and Engineering, 2019, 7, 19824-19831.	3.2	24
77	An efficient approach to produce 2,5â€diformylfuran from 5â€hydroxymethylfurfural using air as oxidant. Journal of Chemical Technology and Biotechnology, 2019, 94, 3832-3838.	1.6	24
78	Towards targeted cancer therapy: Aptamer or oncolytic virus?. European Journal of Pharmaceutical Sciences, 2017, 96, 8-19.	1.9	23
79	One-pot tandem conversion of fructose into biofuel components with in-situ generated catalyst system. Journal of Energy Chemistry, 2018, 27, 375-380.	7.1	23
80	Facile and Efficient Two-Step Formation of a Renewable Monomer 2,5-Furandicarboxylic Acid from Carbohydrates over the NiO_{<i>x</i>} Catalyst. Industrial & Engineering Chemistry Research, 2020, 59, 4895-4904.	1.8	23
81	Spray-dried xylooligosaccharides carried by gum Arabic. Industrial Crops and Products, 2019, 135, 330-343.	2.5	22
82	Highly Efficient Reductive Etherification of 5â€Hydroxymethylfurfural to 2,5â€Bis(Alkoxymethyl)Furans as Biodiesel Components over Zrâ€SBA Catalyst. Energy Technology, 2019, 7, 1801071.	1.8	22
83	Direct conversion of biomass derived <scp>l</scp>-rhamnose to 5-methylfurfural in water in high yield. Green Chemistry, 2020, 22, 5984-5988.	4.6	22
84	Light intensity and N/P nutrient affect the accumulation of lipid and unsaturated fatty acids by Chlorella sp.. Bioresource Technology, 2015, 191, 385-390.	4.8	21
85	Oneâ€Pot Synthesis of Renewable Phthalic Anhydride from 5â€Hydroxymethfurfural by using MoO₃/Cu(NO₃)₂ as Catalyst. ChemSusChem, 2020, 13, 640-646.	3.6	21
86	<i>In Situ</i> Encapsulated CuCo@M-SiO₂ for Higher Alcohol Synthesis from Biomass-Derived Syngas. ACS Sustainable Chemistry and Engineering, 2021, 9, 5910-5923.	3.2	21
87	5-Aminolevulinic acid promotes arachidonic acid biosynthesis in the red microalga Porphyridium purpureum. Biotechnology for Biofuels, 2017, 10, 168.	6.2	20
88	Synthesis of renewable monomer 2, 5-bishydroxymethylfuran from highly concentrated 5-hydroxymethylfurfural in deep eutectic solvents. Journal of Industrial and Engineering Chemistry, 2020, 81, 93-98.	2.9	20
89	Domino transformation of furfural to Î³-valerolactone over SAPO-34 zeolite supported zirconium phosphate catalysts with tunable Lewis and BrÃ¸nsted acid sites. Molecular Catalysis, 2021, 506, 111538.	1.0	19
90	Anisotropic, strong, self-adhesive and strain-sensitive hydrogels enabled by magnetically-oriented cellulose/polydopamine nanocomposites. Carbohydrate Polymers, 2022, 276, 118783.	5.1	19

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91	Comparative physicochemical analysis of suspended and immobilized cultivation of <i>Chlorella</i> sp.. Journal of Chemical Technology and Biotechnology, 2013, 88, 247-254.	1.6	18
92	Using a trait-based approach to optimize mixotrophic growth of the red microalga Porphyridium purpureum towards fatty acid production. Biotechnology for Biofuels, 2018, 11, 273.	6.2	18
93	Production of levulinic acid and ethyl levulinate from cellulosic pulp derived from the cooking of lignocellulosic biomass with active oxygen and solid alkali. Korean Journal of Chemical Engineering, 2019, 36, 740-752.	1.2	18
94	Choline chloride-promoted efficient solvent-free hydrogenation of biomass-derived levulinic acid to Î³-valerolactone over Ru/C. Green Chemistry, 2021, 23, 1983-1988.	4.6	18
95	The Crossâ€Linking Mechanism and Applications of Catecholâ€“Metal Polymer Materials. Advanced Materials Interfaces, 2021, 8, 2100239.	1.9	18
96	A self-healing water-dissolvable and stretchable cellulose-hydrogel for strain sensor. Cellulose, 2022, 29, 341-354.	2.4	18
97	Effective production of Î³-valerolactone from biomass-derived methyl levulinate over CuO -CaCO3 catalyst. Chinese Journal of Catalysis, 2019, 40, 192-203.	6.9	17
98	Chemical Structure Change of Magnesium Oxide in the Wet Oxidation Delignification Process of Biomass with Solid Alkali. ChemCatChem, 2017, 9, 2544-2549.	1.8	16
99	Assembly of Zr-based coordination polymer over USY zeolite as a highly efficient and robust acid catalyst for one-pot transformation of fructose into 2,5-bis(isopropoxymethyl)furan. Journal of Catalysis, 2020, 389, 87-98.	3.1	16
100	Lignin degradation in cooking with active oxygen and solid Alkali process: A mechanism study. Journal of Cleaner Production, 2021, 278, 123984.	4.6	16
101	An effective pathway for 5-brominemethylfurfural synthesis from biomass sugars in deep eutectic solvent. Journal of Chemical Technology and Biotechnology, 2017, 92, 2929-2933.	1.6	15
102	Scale-up cultivation enhanced arachidonic acid accumulation by red microalgae Porphyridium purpureum. Bioprocess and Biosystems Engineering, 2017, 40, 1763-1773.	1.7	15
103	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2695-2695.	3.6	15
104	Boosting the lattice oxygen activity of Fe-catalyst for producing 2,5-diformylfuran from 5-hydroxymethylfurfural. Fuel, 2022, 308, 122069.	3.4	15
105	Boosting the Acid Sites and Lattice Oxygen Activity of the Feâ€“Cu Catalyst for One-Pot Producing 2,5-Diformylfuran from Fructose. ACS Sustainable Chemistry and Engineering, 2022, 10, 421-430.	3.2	15
106	Tandem thionation of biomass derived levulinic acid with Lawesson's reagent. Green Chemistry, 2016, 18, 2971-2975.	4.6	14
107	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.	1.2	14
108	Facile fabrication of super-hydrophilic cellulose hydrogel-coated mesh using deep eutectic solvent for efficient gravity-driven oil/water separation. Cellulose, 2021, 28, 949-960.	2.4	14

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109	Green Process for 5â€(Chloromethyl)furfural Production from Biomass in Threeâ€Constituent Deep Eutectic Solvent. ChemSusChem, 2021, 14, 847-851.	3.6	14
110	Cellulase production and efficient saccharification of biomass by a new mutant Trichoderma afroharzianum MEA-12. Biotechnology for Biofuels, 2021, 14, 219.	6.2	14
111	Atom-economical synthesis of Î³-valerolactone with self-supplied hydrogen from methanol. Chemical Communications, 2015, 51, 16320-16323.	2.2	13
112	Sustainable microalgaeâ€based palm oil mill effluent treatment process with simultaneous biomass production. Canadian Journal of Chemical Engineering, 2016, 94, 1848-1854.	0.9	13
113	Highly selective ring rearrangement of 5-hydroxymethylfurfural to 3-hydroxymethylcyclopentanon catalyzed by non-noble Ni-Fe/Al2O3. Molecular Catalysis, 2021, 505, 111505.	1.0	13
114	Selective Oxidation of Furfural to 2(5H)-Furanone and Maleic Acid over CuMoO₄. ACS Sustainable Chemistry and Engineering, 2021, 9, 13176-13187.	3.2	13
115	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.	2.2	13
116	Characterization of sodium cellulose sulphate/polyâ€dimethylâ€diallylâ€ammonium chloride biological capsules for immobilized cultivation of microalgae. Journal of Chemical Technology and Biotechnology, 2013, 88, 599-605.	1.6	12
117	Pool boiling characteristics of microalgae suspension for biofuels production. Applied Thermal Engineering, 2013, 50, 1369-1375.	3.0	12
118	The Bioeconomy of Microalgal Biofuels. Green Energy and Technology, 2018, , 157-169.	0.4	12
119	Induced cultivation pattern enhanced the phycoerythrin production in red alga Porphyridium purpureum. Bioprocess and Biosystems Engineering, 2020, 43, 347-355.	1.7	12
120	Catalytic Conversion of Biomassâ€Derived 2, 5â€Dimethylfuran into Renewable pâ€Xylene over SAPOâ€34 Catalyst. ChemistrySelect, 2020, 5, 2449-2454.	0.7	12
121	Insights into the catalytic mechanism of 5-hydroxymethfurfural to phthalic anhydride with MoO₃/Cu(NO₃)₂ in one-pot. Catalysis Science and Technology, 2021, 11, 5656-5662.	2.1	12
122	Harvesting of Microalgal Biomass. Green Energy and Technology, 2016, , 77-89.	0.4	12
123	Hepatoprotective effect of genistein against dimethylnitrosamine-induced liver fibrosis in rats by regulating macrophage functional properties and inhibiting the JAK2/STAT3/SOCS3 signaling pathway. Frontiers in Bioscience, 2021, 26, 1572-1584.	0.8	12
124	Drying methods, carrier materials, and length of storage affect the quality of xylooligosaccharides. Food Hydrocolloids, 2019, 94, 439-450.	5.6	11
125	Insight into the Mars-van Krevelen mechanism for production 2,5-diformylfuran over FeNx@C catalyst. Biomass and Bioenergy, 2022, 156, 106320.	2.9	11
126	Insight into the catalytic mechanism of coreâ€"shell structured Ni/Ni-N/CN catalyst towards the oxidation of furfural to furancarboxylic acid. Fuel, 2022, 317, 123579.	3.4	11

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127	Production of 2,5-Diformylfuran from Biomass-derived Glucose via One-Pot Two-Step Process. BioResources, 2014, 9, .	0.5	10
128	Preparation of Ethyl Cellulose Composite Film with Down Conversion Luminescence Properties by Doping Perovskite Quantum Dots. ChemistrySelect, 2019, 4, 6516-6523.	0.7	10
129	Interfacial assembly of self-healing and mechanically stable hydrogels for degradation of organic dyes in water. Communications Materials, 2020, 1, .	2.9	10
130	Removal of copper ions by cellulose nanocrystal-based hydrogel and reduced adsorbents for its catalytic properties. Cellulose, 2022, 29, 4525-4537.	2.4	10
131	Solubility properties and diffusional extraction behavior of natamycin from <i>streptomyces gilvosporeus</i> biomass. Biotechnology Progress, 2013, 29, 109-115.	1.3	9
132	Aerobic Selective Oxidation of Biomass-derived 5-Hydroxymethylfurfural to 2,5-Diformylfuran with Active Manganese Dioxide Catalyst. BioResources, 2014, 9, 4656-4666.	0.5	9
133	Falling film evaporation characteristics of microalgae suspension for biofuel production. Applied Thermal Engineering, 2014, 62, 341-350.	3.0	9
134	Hydrogenation of methyl levulinate to Î³â€valerolactone over Cuâ"€Mg oxide using MeOH as <i>in situ</i> hydrogen source. Journal of Chemical Technology and Biotechnology, 2019, 94, 167-177.	1.6	9
135	Nasal instillation of probiotic extracts inhibits experimental allergic rhinitis. Immunotherapy, 2019, 11, 1315-1323.	1.0	9
136	Survivin facilitates Tâ€helper 2â€"biased inflammation in the airway. International Forum of Allergy and Rhinology, 2019, 9, 656-664.	1.5	9
137	Efficient synthesis of bioâ€based monomer 2,5â€bishydroxymethylfuran by the solventâ€free hydrogenation of 5â€hydroxymethylfurfuralâ€based deep eutectic mixture. Journal of Chemical Technology and Biotechnology, 2020, 95, 1748-1755.	1.6	9
138	A sustainable biorefinery strategy: Conversion and fractionation in a facile biphasic system towards integrated lignocellulose valorizations. Renewable Energy, 2021, 179, 351-358.	4.3	9
139	Selective oxidation of 5-formyloxymethylfurfural to 2, 5-furandicarboxylic acid with Ru/C in water solution. Korean Journal of Chemical Engineering, 2020, 37, 224-230.	1.2	9
140	Efficient Synthesis of Sugar Alcohols over a Synergistic and Sustainable Catalyst. Chinese Journal of Chemistry, 2021, 39, 2467-2476.	2.6	8
141	An efficient approach to synthesizing 2,5-bis(<i>N</i>-methyl-aminomethyl)furan from 5-hydroxymethylfurfural <i>via</i> 2,5-bis(<i>N</i>-methyl-iminomethyl)furan using a two-step reaction in one pot. Green Chemistry, 2021, 23, 5656-5664.	4.6	8
142	Chemoselective Hydrogenation of Biomass-derived 5-hydroxymethylfurfural into Furanyl Diols. Current Organic Chemistry, 2019, 23, 2155-2167.	0.9	8
143	<i>In-Situ</i>-Prepared Nanocopper-Catalyzed Hydrogenationâ€"Liquefaction of Biomass in a Glycerolâ€"Methanol Solvent for Biofuel Production. Energy & Fuels, 2014, 28, 4273-4281.	2.5	7
144	Effluent of biomass cooking with active oxygen and solid alkali (CAOSA): component separation, recovery and characterization. RSC Advances, 2020, 10, 16481-16489.	1.7	7

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145	Î³-Valerolactoneâ€"an excellent solvent and a promising building block. , 2020, , 199-226.		7
146	Rapid polymerization of conductive hydrogels with multifunctionality initiated by lignin-tin organometallic compounds. Materials Today Chemistry, 2022, 23, 100662.	1.7	7
147	Efficient 5-hydroxymethylfurfural synthesis from carbohydrates and food wastes in aqueous-natural deep eutectic solvent (A-NADES) with robust Al2O3 or Al(OH)3. Fuel, 2022, 326, 125062.	3.4	7
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