Yong Sun

List of Publications by Year
in descending order

188 papers	6,686 citations	66315 42 h-index	85498 71 g-index
194 all docs	194 docs citations	194 times ranked	5462 citing authors

#	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	Conversion of biomass to Î³-valerolactone by catalytic transfer hydrogenation of ethyl levulinate over metal hydroxides. Applied Catalysis B: Environmental, 2014, 147, 827-834.	10.8	285
3	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2696-2706.	3.6	269
4	Production of Î³-valerolactone from lignocellulosic biomass for sustainable fuels and chemicals supply. Renewable and Sustainable Energy Reviews, 2014, 40, 608-620.	8.2	232
5	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
6	Zeolite-promoted transformation of glucose into 5-hydroxymethylfurfural in ionic liquid. Chemical Engineering Journal, 2014, 244, 137-144.	6.6	144
7	Conversion of biomass-derived ethyl levulinate into Î³-valerolactone via hydrogen transfer from supercritical ethanol over a ZrO2 catalyst. RSC Advances, 2013, 3, 10277.	1.7	137
8	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
9	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
10	Hydrolysis of Cotton Fiber Cellulose in Formic Acid. Energy & Fuels, 2007, 21, 2386-2389.	2.5	108
11	Preparation, characterization and application of activated carbon from corn cob by KOH activation for removal of Hg(II) from aqueous solution. Bioresource Technology, 2020, 306, 123154.	4.8	105
12	Earth-abundant 3d-transition-metal catalysts for lignocellulosic biomass conversion. Chemical Society Reviews, 2021, 50, 6042-6093.	18.7	104
13	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
14	Perovskite-type Oxide LaMnO3: An Efficient and Recyclable Heterogeneous Catalyst for the Wet Aerobic Oxidation of Lignin to Aromatic Aldehydes. Catalysis Letters, 2008, 126, 106-111.	1.4	102
15	Efficient Conversion of Glucose into 5-Hydroxymethylfurfural by Chromium(III) Chloride in Inexpensive Ionic Liquid. Industrial & Engineering Chemistry Research, 2012, 51, 1099-1104.	1.8	101
16	Activity and Stability of Perovskite-Type Oxide LaCoO₃Catalyst in Lignin Catalytic Wet Oxidation to Aromatic Aldehydes Process. Energy & Fuels, 2009, 23, 19-24.	2.5	96
17	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
18	Extraction of cellulose nanocrystals using a recyclable deep eutectic solvent. Cellulose, 2020, 27, 1301-1314.	2.4	84

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19	Isolation and characterization of wheat straw lignin with a formic acid process. Bioresource Technology, 2010, 101, 2311-2316.	4.8	82
20	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
21	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
22	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
23	Evaluation of Biochemical Methane Potential and Kinetics on the Anaerobic Digestion of Vegetable Crop Residues. Energies, 2019, 12, 26.	1.6	68
24	Bioprocess considerations for microalgal-based wastewater treatment and biomass production. Renewable and Sustainable Energy Reviews, 2015, 42, 1385-1392.	8.2	64
25	Inâ€…Situ Generated Catalyst System to Convert Biomassâ€Derived Levulinic Acid to Î³â€Valerolactone. ChemCatChem, 2015, 7, 1372-1379.	1.8	62
26	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
27	Maltodextrin: A consummate carrier for spray-drying of xylooligosaccharides. Food Research International, 2018, 106, 383-393.	2.9	59
28	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
29	Eco-friendly polymer nanocomposite hydrogel enhanced by cellulose nanocrystal and graphitic-like carbon nitride nanosheet. Chemical Engineering Journal, 2020, 386, 124021.	6.6	58
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	Adsorption of Hg(II) in an Aqueous Solution by Activated Carbon Prepared from Rice Husk Using KOH Activation. ACS Omega, 2020, 5, 29231-29242.	1.6	56
33	Cascade conversion of furfural to fuel bioadditive ethyl levulinate over bifunctional zirconium-based catalysts. Renewable Energy, 2020, 147, 916-923.	4.3	54
34	Cu¹â€“Cu⁰ bicomponent CuNPs@ZIF-8 for highly selective hydrogenation of biomass derived 5-hydroxymethylfurfural. Green Chemistry, 2019, 21, 4319-4323.	4.6	52
35	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
36	Clean conversion of cellulose into fermentable glucose. Biotechnology Advances, 2009, 27, 625-632.	6.0	48

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37	Evaluation of methane production and energy conversion from corn stalk using furfural wastewater pretreatment for whole slurry anaerobic co-digestion. Bioresource Technology, 2019, 293, 121962.	4.8	48
38	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
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	12-Tungstophosphoric acid/boric acid as synergetic catalysts for the conversion of glucose into 5-hydroxymethylfurfural in ionic liquid. Biomass and Bioenergy, 2012, 47, 289-294.	2.9	46
41	Furfural wastewater pretreatment of corn stalk for whole slurry anaerobic co-digestion to improve methane production. Science of the Total Environment, 2019, 674, 49-57.	3.9	45
42	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
43	Effective selectivity conversion of glucose to furan chemicals in the aqueous deep eutectic solvent. Renewable Energy, 2021, 164, 23-33.	4.3	43
44	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
45	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
46	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
47	Development of Betaineâ€Based Sustainable Catalysts for Green Conversion of Carbohydrates and Biomass into 5â€Hydroxymethylfurfural. ChemSusChem, 2019, 12, 495-502.	3.6	42
48	Catalytic Conversion of Biomass to Furanic Derivatives with Deep Eutectic Solvents. ChemSusChem, 2021, 14, 1496-1506.	3.6	42
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	Recent advances on sustainable cellulosic materials for pharmaceutical carrier applications. Carbohydrate Polymers, 2020, 244, 116492.	5.1	40
51	Screening of acidic and alkaline pretreatments for walnut shell and corn stover biorefining using two way heterogeneity evaluation. Renewable Energy, 2019, 132, 950-958.	4.3	39
52	Catalytic conversion of glucose into 5-hydroxymethylfurfural using double catalysts in ionic liquid. Journal of the Taiwan Institute of Chemical Engineers, 2012, 43, 718-723.	2.7	38
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	Effect of different aerobic hydrolysis time on the anaerobic digestion characteristics and energy consumption analysis. Bioresource Technology, 2021, 320, 124332.	4.8	36
59	Efficient synthesis of glucose into 5-hydroxymethylfurfural with SO42â^'/ZrO2 modified H+ zeolites in different solvent systems. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 431-438.	2.7	35
60	Enhancing photo-fermentation biohydrogen production by strengthening the beneficial metabolic products with catalysts. Journal of Cleaner Production, 2021, 317, 128437.	4.6	35
61	One-pot pyrolysis route to Feâ^'N-Doped carbon nanosheets with outstanding electrochemical performance as cathode materials for microbial fuel cell. International Journal of Agricultural and Biological Engineering, 2020, 13, 207-214.	0.3	35
62	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
63	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
64	Oxidative Esterification of 5â€Hydroxymethylfurfural with an Nâ€doped Carbonâ€supported CoCu Bimetallic Catalyst. ChemSusChem, 2020, 13, 4151-4158.	3.6	33
65	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
66	Optimization of mixing ratio of ammoniated rice straw and food waste co-digestion and impact of trace element supplementation on biogas production. Journal of Material Cycles and Waste Management, 2018, 20, 745-753.	1.6	32
67	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
68	Hydrolysis Behavior of Bamboo Fiber in Formic Acid Reaction System. Journal of Agricultural and Food Chemistry, 2010, 58, 2253-2259.	2.4	31
69	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
70	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
71	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
72	Studies on the degradation of corn straw by combined bacterial cultures. Bioresource Technology, 2021, 320, 124174.	4.8	29

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73	Biochemical methane potential prediction for mixed feedstocks of straw and manure in anaerobic co-digestion. Bioresource Technology, 2021, 326, 124745.	4.8	29
74	Synthesis of bis(amino)furans from biomass based 5-hydroxymethyl furfural. Journal of Energy Chemistry, 2018, 27, 209-214.	7.1	28
75	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
76	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
77	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
78	Nanoporous biochar with high specific surface area based on rice straw digestion residue for efficient adsorption of mercury ion from water. Bioresource Technology, 2022, 359, 127471.	4.8	28
79	Oneâ€Step Reductive Amination of 5â€Hydroxymethylfurfural into 2,5â€Bis(aminomethyl)furan over Raney Ni. ChemSusChem, 2021, 14, 2308-2312.	3.6	27
80	Cooking with active oxygen and solid alkali facilitates lignin degradation in bamboo pretreatment. Sustainable Energy and Fuels, 2018, 2, 2206-2214.	2.5	26
81	Rapid determination of lignocellulose in corn stover based on near-infrared reflectance spectroscopy and chemometrics methods. Bioresource Technology, 2021, 321, 124449.	4.8	26
82	Recent progress in the development of advanced biofuel 5-ethoxymethylfurfural. BMC Energy, 2020, 2, .	6.3	25
83	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
84	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
85	A delicate method for the synthesis of high-efficiency Hg (II) The adsorbents based on biochar from corn straw biogas residue. Journal of Cleaner Production, 2022, 355, 131819.	4.6	24
86	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
87	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
88	Effect of solar irradiance on photo biochemical transformation process of direct absorption methane digester. Energy Conversion and Management, 2018, 172, 173-181.	4.4	22
89	Spray-dried xylooligosaccharides carried by gum Arabic. Industrial Crops and Products, 2019, 135, 330-343.	2.5	22
90	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

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91	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
92	Anaerobic digestion of corn straw pretreated by ultrasonic combined with aerobic hydrolysis. Bioresource Technology, 2021, 341, 125826.	4.8	22
93	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
94	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
95	<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
96	5-Aminolevulinic acid promotes arachidonic acid biosynthesis in the red microalga Porphyridium purpureum. Biotechnology for Biofuels, 2017, 10, 168.	6.2	20
97	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
98	Low Loading of CoRe/TiO₂ for Efficient Hydrodeoxygenation of Levulinic Acid to Î³-Valerolactone. ACS Sustainable Chemistry and Engineering, 2021, 9, 10882-10891.	3.2	20
99	Rapid determination of ammonia nitrogen concentration in biogas slurry based on NIR transmission spectroscopy with characteristic wavelength selection. Infrared Physics and Technology, 2022, 122, 104085.	1.3	20
100	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
101	Anisotropic, strong, self-adhesive and strain-sensitive hydrogels enabled by magnetically-oriented cellulose/polydopamine nanocomposites. Carbohydrate Polymers, 2022, 276, 118783.	5.1	19
102	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
103	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
104	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
105	The Crossâ€Linking Mechanism and Applications of Catecholâ€"Metal Polymer Materials. Advanced Materials Interfaces, 2021, 8, 2100239.	1.9	18
106	A self-healing water-dissolvable and stretchable cellulose-hydrogel for strain sensor. Cellulose, 2022, 29, 341-354.	2.4	18
107	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
108	Rapid detection of carbon-nitrogen ratio for anaerobic fermentation feedstocks using near-infrared spectroscopy combined with BiPLS and GSA. Applied Optics, 2019, 58, 5090.	0.9	17

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109	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
110	Impact of temperature fluctuation on anaerobic fermentation process of upgrading bioreactor under solar radiant heating. Applied Thermal Engineering, 2019, 156, 382-391.	3.0	16
111	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
112	Lignin degradation in cooking with active oxygen and solid Alkali process: A mechanism study. Journal of Cleaner Production, 2021, 278, 123984.	4.6	16
113	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
114	Scale-up cultivation enhanced arachidonic acid accumulation by red microalgae Porphyridium purpureum. Bioprocess and Biosystems Engineering, 2017, 40, 1763-1773.	1.7	15
115	Green Processing of Lignocellulosic Biomass and Its Derivatives in Deep Eutectic Solvents. ChemSusChem, 2017, 10, 2695-2695.	3.6	15
116	Improved Buffering Capacity and Methane Production by Anaerobic Co-Digestion of Corn Stalk and Straw Depolymerization Wastewater. Energies, 2018, 11, 1751.	1.6	15
117	Improved energy utilization efficiency via adding solar radiant heating mode for traditional bioreactor to dispose straw: Experimental and numerical evaluation. Waste Management, 2019, 89, 303-312.	3.7	15
118	Boosting the lattice oxygen activity of Fe-catalyst for producing 2,5-diformylfuran from 5-hydroxymethylfurfural. Fuel, 2022, 308, 122069.	3.4	15
119	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
120	Tandem thionation of biomass derived levulinic acid with Lawesson's reagent. Green Chemistry, 2016, 18, 2971-2975.	4.6	14
121	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
122	Impact of total carbon/sulfate on methane production and sulfate removal from co-digestion of sulfate-containing wastewater and corn stalk. Journal of Environmental Management, 2019, 243, 411-418.	3.8	14
123	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
124	Green Process for 5â€(Chloromethyl)furfural Production from Biomass in Threeâ€Constituent Deep Eutectic Solvent. ChemSusChem, 2021, 14, 847-851.	3.6	14
125	Rapid Biochemical Methane Potential Evaluation of Anaerobic Co-Digestion Feedstocks Based on Near Infrared Spectroscopy and Chemometrics. Energies, 2021, 14, 1460.	1.6	14
126	Atom-economical synthesis of Î³-valerolactone with self-supplied hydrogen from methanol. Chemical Communications, 2015, 51, 16320-16323.	2.2	13

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127	Digestion Performance and Microbial Metabolic Mechanism in Thermophilic and Mesophilic Anaerobic Digesters Exposed to Elevated Loadings of Organic Fraction of Municipal Solid Waste. Energies, 2018, 11, 952.	1.6	13
128	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
129	Evaluation of lignin inhibition in anaerobic digestion from the perspective of reducing the hydrolysis rate of holocellulose. Bioresource Technology, 2021, 333, 125204.	4.8	13
130	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
131	A Review of Enhancement of Biohydrogen Productions by Chemical Addition Using a Supervised Machine Learning Method. Energies, 2021, 14, 5916.	1.6	13
132	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
133	Effects on mesophilic anaerobic digestion performance of corn stalk with the addition/ pretreatment of depolymerization wastewater. Fuel, 2022, 322, 124234.	3.4	13
134	Rapid Determination of Cellulose and Hemicellulose Contents in Corn Stover Using Near-Infrared Spectroscopy Combined with Wavelength Selection. Molecules, 2022, 27, 3373.	1.7	13
135	Effect of Aerobic Hydrolysis on Anaerobic Fermentation Characteristics of Various Parts of Corn Stover and the Scum Layer. Energies, 2019, 12, 381.	1.6	12
136	Induced cultivation pattern enhanced the phycoerythrin production in red alga Porphyridium purpureum. Bioprocess and Biosystems Engineering, 2020, 43, 347-355.	1.7	12
137	Effect of compost and chemical fertilizer application on soil physical properties and productivity of sesame (Sesamum Indicum L.). Biomass Conversion and Biorefinery, 2023, 13, 905-915.	2.9	12
138	Catalytic Conversion of Biomassâ€Derived 2, 5â€Dimethylfuran into Renewable pâ€Xylene over SAPOâ€34 Catalyst. ChemistrySelect, 2020, 5, 2449-2454.	0.7	12
139	Application of Anaerobic Digestion Model No. 1 for modeling anaerobic digestion of vegetable crop residues: Fractionation of crystalline cellulose. Journal of Cleaner Production, 2021, 285, 124865.	4.6	12
140	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
141	Drying methods, carrier materials, and length of storage affect the quality of xylooligosaccharides. Food Hydrocolloids, 2019, 94, 439-450.	5.6	11
142	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
143	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
144	Preparation of Ethyl Cellulose Composite Film with Down Conversion Luminescence Properties by Doping Perovskite Quantum Dots. ChemistrySelect, 2019, 4, 6516-6523.	0.7	10

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145	Interfacial assembly of self-healing and mechanically stable hydrogels for degradation of organic dyes in water. Communications Materials, 2020, 1, .	2.9	10
146	Removal of copper ions by cellulose nanocrystal-based hydrogel and reduced adsorbents for its catalytic properties. Cellulose, 2022, 29, 4525-4537.	2.4	10
147	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
148	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
149	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
150	Influence of enclosure filled with phase change material on photo-thermal regulation of direct absorption anaerobic reactor: Numerical and experimental study. Applied Energy, 2022, 313, 118885.	5.1	9
151	Efficient Synthesis of Sugar Alcohols over a Synergistic and Sustainable Catalyst. Chinese Journal of Chemistry, 2021, 39, 2467-2476.	2.6	8
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