

Iris K M Yu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

3,760
citations

35
h-index

61
g-index

65
ext. papers

4,767
ext. citations

9.8
avg. IF

6.08
L-index

#	Paper	IF	Citations
64	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. <i>Bioresource Technology</i> , 2017 , 246, 254-270	11	300
63	Conversion of biomass to hydroxymethylfurfural: A review of catalytic systems and underlying mechanisms. <i>Bioresource Technology</i> , 2017 , 238, 716-732	11	293
62	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. <i>Environment International</i> , 2019 , 124, 521-532	12.9	287
61	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. <i>Bioresource Technology</i> , 2018 , 269, 465-475	11	182
60	Green synthesis of gamma-valerolactone (GVL) through hydrogenation of biomass-derived levulinic acid using non-noble metal catalysts: A critical review. <i>Chemical Engineering Journal</i> , 2019 , 372, 992-1006 ^{14.7}	14.7	144
59	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. <i>Chemical Engineering Journal</i> , 2019 , 375, 121983	14.7	138
58	A sustainable biochar catalyst synergized with copper heteroatoms and CO ₂ for singlet oxygenation and electron transfer routes. <i>Green Chemistry</i> , 2019 , 21, 4800-4814	10	133
57	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. <i>Green Chemistry</i> , 2019 , 21, 1267-1281	10	124
56	Sustainable food waste management towards circular bioeconomy: Policy review, limitations and opportunities. <i>Bioresource Technology</i> , 2020 , 297, 122497	11	117
55	Plenty of room for carbon on the ground: Potential applications of biochar for stormwater treatment. <i>Science of the Total Environment</i> , 2018 , 625, 1644-1658	10.2	110
54	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria lemaneiformis</i>) for production of levulinic acid and algae hydrochar. <i>Bioresource Technology</i> , 2019 , 273, 251-258	11	108
53	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. <i>Bioresource Technology</i> , 2017 , 237, 222-230	11	99
52	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018 , 252, 76-82	11	99
51	Biorenewable hydrogen production through biomass gasification: A review and future prospects. <i>Environmental Research</i> , 2020 , 186, 109547	7.9	99
50	Valorization of cellulosic food waste into levulinic acid catalyzed by heterogeneous Brønsted acids: Temperature and solvent effects. <i>Chemical Engineering Journal</i> , 2017 , 327, 328-335	14.7	80
49	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. <i>Bioresource Technology</i> , 2016 , 219, 338-347	11	79
48	Extended theory of planned behaviour for promoting construction waste recycling in Hong Kong. <i>Waste Management</i> , 2019 , 83, 161-170	8.6	73

47	Phosphoric acid-activated wood biochar for catalytic conversion of starch-rich food waste into glucose and 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2018 , 267, 242-248	11	72
46	Propylene carbonate and Valerolactone as green solvents enhance Sn(IV)-catalysed hydroxymethylfurfural (HMF) production from bread waste. <i>Green Chemistry</i> , 2018 , 20, 2064-2074	10	66
45	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018 , 314, 52-61	6.3	63
44	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. <i>Chemical Engineering Journal</i> , 2020 , 398, 125505	14.7	61
43	Selective Glucose Isomerization to Fructose via a Nitrogen-doped Solid Base Catalyst Derived from Spent Coffee Grounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16113-16120	8.3	58
42	Upcycling wood waste into fibre-reinforced magnesium phosphate cement particleboards. <i>Construction and Building Materials</i> , 2018 , 159, 54-63	6.7	57
41	Graphite oxide- and graphene oxide-supported catalysts for microwave-assisted glucose isomerisation in water. <i>Green Chemistry</i> , 2019 , 21, 4341-4353	10	54
40	Transforming wood waste into water-resistant magnesia-phosphate cement particleboard modified by alumina and red mud. <i>Journal of Cleaner Production</i> , 2017 , 168, 452-462	10.3	54
39	Polar aprotic solvent-water mixture as the medium for catalytic production of hydroxymethylfurfural (HMF) from bread waste. <i>Bioresource Technology</i> , 2017 , 245, 456-462	11	50
38	Valorization of lignocellulosic fibres of paper waste into levulinic acid using solid and aqueous Brønsted acid. <i>Bioresource Technology</i> , 2018 , 247, 387-394	11	48
37	Life-cycle assessment on food waste valorisation to value-added products. <i>Journal of Cleaner Production</i> , 2018 , 199, 840-848	10.3	47
36	Valorization of starchy, cellulosic, and sugary food waste into hydroxymethylfurfural by one-pot catalysis. <i>Chemosphere</i> , 2017 , 184, 1099-1107	8.4	47
35	Influence of green solvent on levulinic acid production from lignocellulosic paper waste. <i>Bioresource Technology</i> , 2020 , 298, 122544	11	46
34	Critical Review on Biochar-Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900149	5.9	44
33	Life-cycle cost-benefit analysis on sustainable food waste management: The case of Hong Kong International Airport. <i>Journal of Cleaner Production</i> , 2018 , 187, 751-762	10.3	44
32	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , 2019 , 253, 680-707	9.3	44
31	Tin-Functionalized Wood Biochar as a Sustainable Solid Catalyst for Glucose Isomerization in Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4851-4860	8.3	44
30	Promoting food waste recycling in the commercial and industrial sector by extending the Theory of Planned Behaviour: A Hong Kong case study. <i>Journal of Cleaner Production</i> , 2018 , 204, 1034-1043	10.3	37

29	Chemical transformation of food and beverage waste-derived fructose to hydroxymethylfurfural as a value-added product. <i>Catalysis Today</i> , 2018 , 314, 70-77	5.3	34
28	Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO capture. <i>Journal of Hazardous Materials</i> , 2019 , 374, 365-371	12.8	31
27	Environmental and technical feasibility study of upcycling wood waste into cement-bonded particleboard. <i>Construction and Building Materials</i> , 2018 , 173, 474-480	6.7	28
26	Novel M (Mg/Ni/Cu)-Al-CO layered double hydroxides synthesized by aqueous miscible organic solvent treatment (AMOST) method for CO capture. <i>Journal of Hazardous Materials</i> , 2019 , 373, 285-293	12.8	24
25	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 1479-1532	11.1	22
24	Contrasting Roles of Maleic Acid in Controlling Kinetics and Selectivity of Sn(IV)- and Cr(III)-Catalyzed Hydroxymethylfurfural Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14264-14274	8.3	21
23	Functionalized zeolite-solvent catalytic systems for microwave-assisted dehydration of fructose to 5-hydroxymethylfurfural. <i>Microporous and Mesoporous Materials</i> , 2019 , 284, 43-52	5.3	19
22	Mixture Design and Reaction Sequence for Recycling Construction Wood Waste into Rapid-Shaping MagnesiaPhosphate Cement Particleboard. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6645-6654	3.9	18
21	Valorization of humins from food waste biorefinery for synthesis of biochar-supported Lewis acid catalysts. <i>Science of the Total Environment</i> , 2021 , 775, 145851	10.2	17
20	Supercritical Carbon Dioxide Extraction of Value-Added Products and Thermochemical Synthesis of Platform Chemicals from Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2821-2829	8.3	16
19	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An ExperimentalComputational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1437-1446	8.3	16
18	Tuneable functionalities in layered double hydroxide catalysts for thermochemical conversion of biomass-derived glucose to fructose. <i>Chemical Engineering Journal</i> , 2020 , 383, 122914	14.7	15
17	Photo-Fenton abatement of aqueous organics using metal-organic frameworks: An advancement from benchmark zeolite. <i>Science of the Total Environment</i> , 2018 , 644, 389-397	10.2	14
16	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. <i>Journal of Cleaner Production</i> , 2020 , 268, 122300	10.3	11
15	NaCl-promoted phase transition and glycosidic bond cleavage under microwave heating for energy-efficient biorefinery of rice starch. <i>Green Chemistry</i> , 2020 , 22, 7355-7365	10	10
14	Efficient Depolymerization of Cellulosic Paper Towel Waste Using Organic Carbonate Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13100-13110	8.3	10
13	Sustainable production of high-value gluconic acid and glucaric acid through oxidation of biomass-derived glucose: A critical review. <i>Journal of Cleaner Production</i> , 2021 , 312, 127745	10.3	10
12	Evidences of starchmicrowave interactions under hydrolytic and pyrolytic conditions. <i>Green Chemistry</i> , 2020 , 22, 7109-7118	10	9

11	Tailoring acidity and porosity of alumina catalysts via transition metal doping for glucose conversion in biorefinery. <i>Science of the Total Environment</i> , 2020 , 704, 135414	10.2	7
10	Critical factors for levulinic acid production from starch-rich food waste: solvent effects, reaction pressure, and phase separation. <i>Green Chemistry</i> , 2022 ,	10	7
9	Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. <i>Journal of Cleaner Production</i> , 2020 , 268, 122378	10.3	5
8	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. <i>Environmental Pollution</i> , 2021 , 279, 116899	9.3	5
7	A cross-region analysis of commercial food waste recycling behaviour. <i>Chemosphere</i> , 2021 , 274, 129750	8.4	4
6	Novel Application of Biochar in Stormwater Harvesting 2019 , 319-347		2
5	Biorefinery-assisted soil management for enhancing food security. <i>Journal of Soils and Sediments</i> , 2020 , 20, 4007-4010	3.4	1
4	Life-cycle assessment of food waste recycling 2020 , 481-513		0
3	Mechanistic understandings of catalytic hydrogenation of bio-derived aromatics. <i>Green Chemistry</i> ,	10	0
2	Theory of planned behavior on food waste recycling 2020 , 221-239		0
1	Sustainable carbohydrate-derived building materials 2020 , 285-304		