

Iris K M Yu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8375598/publications.pdf>

Version: 2024-02-01

64
papers

5,750
citations

81839

39
h-index

123376

61
g-index

65
all docs

65
docs citations

65
times ranked

5530
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of biomass to hydroxymethylfurfural: A review of catalytic systems and underlying mechanisms. <i>Bioresource Technology</i> , 2017, 238, 716-732.	4.8	400
2	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. <i>Bioresource Technology</i> , 2017, 246, 254-270.	4.8	398
3	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.	4.8	384
4	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. <i>Bioresource Technology</i> , 2018, 269, 465-475.	4.8	298
5	Biorenewable hydrogen production through biomass gasification: A review and future prospects. <i>Environmental Research</i> , 2020, 186, 109547.	3.7	280
6	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.	6.6	259
7	Sustainable food waste management towards circular bioeconomy: Policy review, limitations and opportunities. <i>Bioresource Technology</i> , 2020, 297, 122497.	4.8	225
8	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. <i>Chemical Engineering Journal</i> , 2019, 375, 121983.	6.6	218
9	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.	4.6	188
10	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.	3.9	165
11	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. <i>Green Chemistry</i> , 2019, 21, 1267-1281.	4.6	157
12	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (l 273, 251-258.	4.8	146
13	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018, 252, 76-82.	4.8	132
14	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. <i>Bioresource Technology</i> , 2017, 237, 222-230.	4.8	121
15	Extended theory of planned behaviour for promoting construction waste recycling in Hong Kong. <i>Waste Management</i> , 2019, 83, 161-170.	3.7	118
16	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.	4.8	114
17	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.	6.6	99
18	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. <i>Bioresource Technology</i> , 2016, 219, 338-347.	4.8	98

#	ARTICLE	IF	CITATIONS
19	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.	6.6	96
20	Critical Review on Biochar-Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900149.	2.7	93
21	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018, 314, 52-61.	2.2	92
22	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.	3.2	86
23	Propylene carbonate and γ -valerolactone as green solvents enhance Sn(IV)-catalysed hydroxymethylfurfural (HMF) production from bread waste. <i>Green Chemistry</i> , 2018, 20, 2064-2074.	4.6	85
24	Graphite oxide- and graphene oxide-supported catalysts for microwave-assisted glucose isomerisation in water. <i>Green Chemistry</i> , 2019, 21, 4341-4353.	4.6	80
25	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , 2019, 253, 680-707.	3.7	79
26	Upcycling wood waste into fibre-reinforced magnesium phosphate cement particleboards. <i>Construction and Building Materials</i> , 2018, 159, 54-63.	3.2	77
27	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.	4.6	74
28	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.	4.8	71
29	Life-cycle assessment on food waste valorisation to value-added products. <i>Journal of Cleaner Production</i> , 2018, 199, 840-848.	4.6	71
30	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.	4.6	69
31	Influence of green solvent on levulinic acid production from lignocellulosic paper waste. <i>Bioresource Technology</i> , 2020, 298, 122544.	4.8	66
32	Environmental and technical feasibility study of upcycling wood waste into cement-bonded particleboard. <i>Construction and Building Materials</i> , 2018, 173, 474-480.	3.2	59
33	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.	3.2	59
34	Valorization of starchy, cellulosic, and sugary food waste into hydroxymethylfurfural by one-pot catalysis. <i>Chemosphere</i> , 2017, 184, 1099-1107.	4.2	58
35	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.	4.6	56
36	Valorization of lignocellulosic fibres of paper waste into levulinic acid using solid and aqueous Brønsted acid. <i>Bioresource Technology</i> , 2018, 247, 387-394.	4.8	55

#	ARTICLE	IF	CITATIONS
37	Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2019, 374, 365-371.	6.5	55
38	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.	6.6	50
39	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.	4.6	49
40	Chemical transformation of food and beverage waste-derived fructose to hydroxymethylfurfural as a value-added product. <i>Catalysis Today</i> , 2018, 314, 70-77.	2.2	47
41	Novel M (Mg/Ni/Cu)-Al-CO ₃ layered double hydroxides synthesized by aqueous miscible organic solvent treatment (AMOST) method for CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2019, 373, 285-293.	6.5	38
42	Functionalized zeolite-solvent catalytic systems for microwave-assisted dehydration of fructose to 5-hydroxymethylfurfural. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 43-52.	2.2	32
43	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.	3.9	30
44	Critical factors for levulinic acid production from starch-rich food waste: solvent effects, reaction pressure, and phase separation. <i>Green Chemistry</i> , 2022, 24, 163-175.	4.6	29
45	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.	3.2	28
46	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An Experimental and Computational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1437-1446.	3.2	28
47	Tuneable functionalities in layered double hydroxide catalysts for thermochemical conversion of biomass-derived glucose to fructose. <i>Chemical Engineering Journal</i> , 2020, 383, 122914.	6.6	28
48	Mixture Design and Reaction Sequence for Recycling Construction Wood Waste into Rapid-Shaping Magnesia-Phosphate Cement Particleboard. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6645-6654.	1.8	26
49	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.	3.2	23
50	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.	4.6	20
51	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.	4.6	18
52	Efficient Depolymerization of Cellulosic Paper Towel Waste Using Organic Carbonate Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13100-13110.	3.2	18
53	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.	3.9	17
54	Evidences of starch-microwave interactions under hydrolytic and pyrolytic conditions. <i>Green Chemistry</i> , 2020, 22, 7109-7118.	4.6	14

#	ARTICLE	IF	CITATIONS
55	Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. <i>Journal of Cleaner Production</i> , 2020, 268, 122378.	4.6	14
56	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.	3.9	13
57	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. <i>Environmental Pollution</i> , 2021, 279, 116899.	3.7	12
58	A cross-region analysis of commercial food waste recycling behaviour. <i>Chemosphere</i> , 2021, 274, 129750.	4.2	11
59	Mechanistic understanding of the catalytic hydrogenation of bio-derived aromatics. <i>Green Chemistry</i> , 2021, 23, 9239-9253.	4.6	7
60	Novel Application of Biochar in Stormwater Harvesting. , 2019, , 319-347.		4
61	Biorefinery-assisted soil management for enhancing food security. <i>Journal of Soils and Sediments</i> , 2020, 20, 4007-4010.	1.5	3
62	Theory of planned behavior on food waste recycling. , 2020, , 221-239.		2
63	Life-cycle assessment of food waste recycling. , 2020, , 481-513.		2
64	Sustainable carbohydrate-derived building materials. , 2020, , 285-304.		0