

Yuan Yao

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.

33
papers

666
citations

13
h-index

25
g-index

39
ext. papers

1,098
ext. citations

7.7
avg, IF

4.73
L-index

#	Paper	IF	Citations
33	Design under uncertainty of hydrocarbon biorefinery supply chains: Multiobjective stochastic programming models, decomposition algorithm, and a Comparison between CVaR and downside risk. <i>AIChE Journal</i> , 2012 , 58, 2155-2179	3.6	180
32	Quantifying the Water-Energy-Food Nexus: Current Status and Trends. <i>Energies</i> , 2016 , 9, 65	3.1	117
31	A strong, biodegradable and recyclable lignocellulosic bioplastic. <i>Nature Sustainability</i> , 2021 , 4, 627-635	22.1	74
30	Environmental implications of the methanol economy in China: well-to-wheel comparison of energy and environmental emissions for different methanol fuel production pathways. <i>Journal of Cleaner Production</i> , 2018 , 172, 1381-1390	10.3	25
29	A hybrid life-cycle inventory for multi-crystalline silicon PV module manufacturing in China. <i>Environmental Research Letters</i> , 2014 , 9, 114001	6.2	24
28	Life-cycle modeling framework for generating energy and greenhouse gas emissions inventory of emerging technologies in the chemical industry. <i>Journal of Cleaner Production</i> , 2018 , 172, 768-777	10.3	21
27	Artificial neural network based modeling for the prediction of yield and surface area of activated carbon from biomass. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 1015-1027	5.3	20
26	Integrating Life Cycle Assessment and Agent-Based Modeling: A Dynamic Modeling Framework for Sustainable Agricultural Systems. <i>Journal of Cleaner Production</i> , 2019 , 238, 117853	10.3	19
25	Lightweight, strong, moldable wood via cell wall engineering as a sustainable structural material. <i>Science</i> , 2021 , 374, 465-471	33.3	18
24	Understanding Variability To Reduce the Energy and GHG Footprints of U.S. Ethylene Production. <i>Environmental Science & Technology</i> , 2015 , 49, 14704-16	10.3	17
23	Prospective Energy Analysis of Emerging Technology Options for the United States Ethylene Industry. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3493-3505	3.9	16
22	Generating Energy and Greenhouse Gas Inventory Data of Activated Carbon Production Using Machine Learning and Kinetic Based Process Simulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1252-1261	8.3	16
21	Applications of artificial intelligence-based modeling for bioenergy systems: A review. <i>GCB Bioenergy</i> , 2021 , 13, 774-802	5.6	13
20	Supply Chain of Waste Cotton Recycling and Reuse: A Review. <i>AATCC Journal of Research</i> , 2020 , 7, 19-31	11	12
19	Life Cycle Analysis of Decentralized Preprocessing Systems for Fast Pyrolysis Biorefineries with Blended Feedstocks in the Southeastern United States. <i>Energy Technology</i> , 2020 , 8, 1900850	3.5	11
18	Sustainable high-strength macrofibres extracted from natural bamboo. <i>Nature Sustainability</i> , 2022 , 5, 235-244	22.1	10
17	Quantifying carbon capture potential and cost of carbon capture technology application in the U.S. refining industry. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 74, 87-98	4.2	8

16	Greener pathways for energy-intensive commodity chemicals: opportunities and challenges. <i>Current Opinion in Chemical Engineering</i> , 2014 , 6, 90-98	5.4	8
15	Dynamic life cycle carbon and energy analysis for cross-laminated timber in the Southeastern United States. <i>Environmental Research Letters</i> , 2020 , 15, 124036	6.2	8
14	Impacts of uncertain feedstock quality on the economic feasibility of fast pyrolysis biorefineries with blended feedstocks and decentralized preprocessing sites in the Southeastern United States. <i>GCB Bioenergy</i> , 2020 , 12, 1014-1029	5.6	8
13	Techno-Economic Analysis of decentralized preprocessing systems for fast pyrolysis biorefineries with blended feedstocks in the southeastern United States. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 143, 110881	16.2	8
12	Reflections on a massive open online life cycle assessment course. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 1901-1907	4.6	7
11	Using a Data-Driven Approach to Unveil Greenhouse Gas Emission Intensities of Different Pulp and Paper Products. <i>Procedia CIRP</i> , 2019 , 80, 689-692	1.8	4
10	Multiobjective optimization of hydrocarbon biorefinery supply chain designs under uncertainty 2012 ,		4
9	Life Cycle Energy, Environmental and Economic Comparative Analysis of CdTe Thin-film Photovoltaics Domestic and Overseas Manufacturing Scenarios. <i>Computer Aided Chemical Engineering</i> , 2013 , 32, 733-738	0.6	3
8	An integrated techno-sustainability assessment (TSA) framework for emerging technologies. <i>Green Chemistry</i> , 2021 , 23, 1700-1715	10	3
7	A Parametric Life Cycle Modeling Framework for Identifying Research Development Priorities of Emerging Technologies: A Case Study of Additive Manufacturing. <i>Procedia CIRP</i> , 2019 , 80, 370-375	1.8	2
6	Equally green? Understanding the distribution of urban green infrastructure across student demographics in four public school districts in North Carolina, USA. <i>Urban Forestry and Urban Greening</i> , 2022 , 67, 127434	5.4	2
5	Sustainability implications of artificial intelligence in the chemical industry: A conceptual framework. <i>Journal of Industrial Ecology</i> ,	7.2	2
4	Life cycle carbon footprint analysis of pulp and paper grades in the United States using production-line-based data and integration. <i>BioResources</i> , 2020 , 15, 3899-3914	1.3	2
3	Key issue, challenges, and status quo of models for biofuel supply chain design 2020 , 273-315		1
2	Dynamic life-cycle carbon analysis for fast pyrolysis biofuel produced from pine residues: implications of carbon temporal effects. <i>Biotechnology for Biofuels</i> , 2021 , 14, 191	7.8	1
1	A general Life Cycle Assessment framework for sustainable bleaching: A case study of peracetic acid bleaching of wood pulp. <i>Journal of Cleaner Production</i> , 2021 , 290, 125854	10.3	0