

Ling Tao

List of Publications by Year in descending order

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65
papers

5,726
citations

126907

33
h-index

110387

64
g-index

74
all docs

74
docs citations

74
times ranked

6608
citing authors

#	ARTICLE	IF	CITATIONS
1	What Should We Make with CO ₂ and How Can We Make It?. <i>Joule</i> , 2018, 2, 825-832.	24.0	975
2	Optimal design of sustainable cellulosic biofuel supply chains: Multiobjective optimization coupled with life cycle assessment and input-output analysis. <i>AIChE Journal</i> , 2012, 58, 1157-1180.	3.6	547
3	Bio-jet fuel conversion technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 801-822.	16.4	354
4	Transforming the carbon economy: challenges and opportunities in the convergence of low-cost electricity and reductive CO ₂ utilization. <i>Energy and Environmental Science</i> , 2020, 13, 472-494.	30.8	290
5	Process and technoeconomic analysis of leading pretreatment technologies for lignocellulosic ethanol production using switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11105-11114.	9.6	274
6	Bioconversion of natural gas to liquid fuel: Opportunities and challenges. <i>Biotechnology Advances</i> , 2014, 32, 596-614.	11.7	255
7	Sustained photosynthetic conversion of CO ₂ to ethylene in recombinant cyanobacterium <i>Synechocystis</i> 6803. <i>Energy and Environmental Science</i> , 2012, 5, 8998.	30.8	214
8	Techno-economic analysis and life-cycle assessment of cellulosic isobutanol and comparison with cellulosic ethanol and n-butanol. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 30-48.	3.7	185
9	Techno-economic, life-cycle, and socioeconomic impact analysis of enzymatic recycling of poly(ethylene terephthalate). <i>Joule</i> , 2021, 5, 2479-2503.	24.0	160
10	DMR (deacetylation and mechanical refining) processing of corn stover achieves high monomeric sugar concentrations (230 g L ⁻¹) during enzymatic hydrolysis and high ethanol concentrations (>10% v/v) during fermentation without hydrolysate purification or concentration. <i>Energy and Environmental Science</i> , 2016, 9, 1237-1245.	30.8	157
11	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering. <i>Biomass and Bioenergy</i> , 2010, 34, 1065-1078.	5.7	129
12	The economics of current and future biofuels. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2009, 45, 199-217.	2.1	123
13	The Techno-Economic Basis for Coproduct Manufacturing To Enable Hydrocarbon Fuel Production from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3196-3211.	6.7	121
14	Strengths, challenges, and opportunities for hydrothermal pretreatment in lignocellulosic biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 125-138.	3.7	111
15	Ethylene-forming enzyme and bioethylene production. <i>Biotechnology for Biofuels</i> , 2014, 7, 33.	6.2	90
16	Techno-economic and resource analysis of hydroprocessed renewable jet fuel. <i>Biotechnology for Biofuels</i> , 2017, 10, 261.	6.2	82
17	Comparative techno-economic analysis and reviews of n-butanol production from corn grain and corn stover. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 342-361.	3.7	80
18	A highly efficient dilute alkali deacetylation and mechanical (disc) refining process for the conversion of renewable biomass to lower cost sugars. <i>Biotechnology for Biofuels</i> , 2014, 7, 98.	6.2	78

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19	Economic Perspectives of Biogas Production via Anaerobic Digestion. <i>Bioengineering</i> , 2020, 7, 74.	3.5	77
20	Techno-economic analysis for upgrading the biomass-derived ethanol-to-jet blendstocks. <i>Green Chemistry</i> , 2017, 19, 1082-1101.	9.0	73
21	Comparison of different mechanical refining technologies on the enzymatic digestibility of low severity acid pretreated corn stover. <i>Bioresource Technology</i> , 2013, 147, 401-408.	9.6	70
22	Techno-economic analysis of jet-fuel production from biorefinery waste lignin. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 486-501.	3.7	67
23	Toward net-zero sustainable aviation fuel with wet waste-derived volatile fatty acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	63
24	Improved ethanol yield and reduced Minimum Ethanol Selling Price (MESP) by modifying low severity for <i>Biofuels</i> , 2012, 5, 60.	6.2	60
25	The economic outlook for converting CO ₂ and electrons to molecules. <i>Energy and Environmental Science</i> , 2021, 14, 3664-3678.	30.8	60
26	Modeling of rotating drum bioreactor for anaerobic solid-state fermentation. <i>Applied Energy</i> , 2010, 87, 2839-2845.	10.1	55
27	Value Proposition of Untapped Wet Wastes: Carboxylic Acid Production through Anaerobic Digestion. <i>IScience</i> , 2020, 23, 101221.	4.1	51
28	A comparative techno-economic analysis of renewable methanol synthesis from biomass and CO ₂ : Opportunities and barriers to commercialization. <i>Applied Energy</i> , 2021, 303, 117637.	10.1	48
29	Improved ethanol yield and reduced minimum ethanol selling price (MESP) by modifying low severity <i>Biotechnology for Biofuels</i> , 2012, 5, 69.	6.2	42
30	Improving Sugar Yields and Reducing Enzyme Loadings in the Deacetylation and Mechanical Refining (DMR) Process through Multistage Disk and Szego Refining and Corresponding Techno-Economic Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 324-333.	6.7	40
31	Comparative techno-economic analysis and process design for indirect liquefaction pathways to distillate-range fuels via biomass-derived oxygenated intermediates upgrading. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 41-66.	3.7	39
32	Well-to-wake analysis of ethanol-to-jet and sugar-to-jet pathways. <i>Biotechnology for Biofuels</i> , 2017, 10, 21.	6.2	38
33	Biofuel Options for Marine Applications: Technoeconomic and Life-Cycle Analyses. <i>Environmental Science & Technology</i> , 2021, 55, 7561-7570.	10.0	38
34	Techno-economic analysis of the deacetylation and disk refining process: characterizing the effect of refining energy and enzyme usage on minimum sugar selling price and minimum ethanol selling price. <i>Biotechnology for Biofuels</i> , 2015, 8, 173.	6.2	32
35	Intermediate species measurement during iso-butanol auto-ignition. <i>Combustion and Flame</i> , 2015, 162, 3541-3553.	5.2	32
36	The Need for and Path to Harmonized Life Cycle Assessment and Techno-Economic Assessment for Carbon Dioxide Capture and Utilization. <i>Energy Technology</i> , 2020, 8, 1901034.	3.8	29

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37	Techno-economic analysis of a conceptual biofuel production process from bioethylene produced by photosynthetic recombinant cyanobacteria. <i>Green Chemistry</i> , 2016, 18, 6266-6281.	9.0	28
38	Environmental, Economic, and Scalability Considerations and Trends of Selected Fuel Economy-Enhancing Biomass-Derived Blendstocks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 561-569.	6.7	28
39	Techno-economic Analysis and Life-Cycle Analysis of Renewable Diesel Fuels Produced with Waste Feedstocks. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 382-393.	6.7	28
40	Technoeconomic and life-cycle analysis of single-step catalytic conversion of wet ethanol into fungible fuel blendstocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12576-12583.	7.1	27
41	Economic and environmental potentials for natural gas to enhance biomass-to-liquid fuels technologies. <i>Green Chemistry</i> , 2018, 20, 5358-5373.	9.0	26
42	Biological valorization of natural gas for the production of lactic acid: Techno-economic analysis and life cycle assessment. <i>Biochemical Engineering Journal</i> , 2020, 158, 107500.	3.6	25
43	Using waste CO ₂ to increase ethanol production from corn ethanol biorefineries: Techno-economic analysis. <i>Applied Energy</i> , 2020, 280, 115964.	10.1	24
44	A hybrid pathway to biojet fuel via 2,3-butanediol. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3904-3914.	4.9	22
45	Life cycle analysis of renewable natural gas and lactic acid production from waste feedstocks. <i>Journal of Cleaner Production</i> , 2021, 311, 127653.	9.3	22
46	Effect of corn stover compositional variability on minimum ethanol selling price (MESP). <i>Bioresource Technology</i> , 2013, 140, 426-430.	9.6	20
47	Performance and techno-economic assessment of several solid-liquid separation technologies for processing dilute-acid pretreated corn stover. <i>Bioresource Technology</i> , 2014, 167, 291-296.	9.6	20
48	Synthesis of Azeotropic Distillation Systems with Recycles. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 1783-1794.	3.7	19
49	Techno-Economic Analysis and Life-Cycle Analysis of Two Light-Duty Bioblendstocks: Isobutanol and Aromatic-Rich Hydrocarbons. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8790-8800.	6.7	18
50	Visualization of the Mode Shapes of Pressure Oscillation in a Cylindrical Cavity. <i>Combustion Science and Technology</i> , 2015, 187, 1610-1619.	2.3	15
51	Recycling of Dilute Deacetylation Black Liquor to Enable Efficient Recovery and Reuse of Spent Chemicals and Biomass Pretreatment Waste. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	15
52	Kinetics and Rheological Behavior of Higher Solid (Solids >20%) Enzymatic Hydrolysis Reactions Using Dilute Acid Pretreated, Deacetylation and Disk Refined, and Deacetylation and Mechanical Refined (DMR) Corn Stover Slurries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1633-1641.	6.7	14
53	Using waste CO ₂ from corn ethanol biorefineries for additional ethanol production: life-cycle analysis. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 468-480.	3.7	13
54	Environmental, Economic, and Scalability Considerations of Selected Bio-Derived Blendstocks for Mixing-Controlled Compression Ignition Engines. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6699-6712.	6.7	13

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55	Towards cost-competitive middle distillate fuels from ethanol within a market-flexible biorefinery concept. <i>Green Chemistry</i> , 2021, 23, 9534-9548.	9.0	12
56	High temperature pre-digestion of corn stover biomass for improved product yields. <i>Biotechnology for Biofuels</i> , 2014, 7, 170.	6.2	11
57	Understanding the role of Fischer-Tropsch reaction kinetics in techno-economic analysis for co-conversion of natural gas and biomass to liquid transportation fuels. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1306-1320.	3.7	11
58	An economic analysis of the role of materials, system engineering, and performance in electrochemical carbon dioxide conversion to formate. <i>Journal of Cleaner Production</i> , 2022, 351, 131564.	9.3	7
59	Effect of Feedstock Variability, Feedstock Blends, and Pretreatment Conditions on Sugar Yield and Production Costs. <i>Frontiers in Energy Research</i> , 2022, 9, .	2.3	4
60	Technical Performance and Economic Evaluation of Evaporative and Membrane-Based Concentration for Biomass-Derived Sugars. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11584-11592.	3.7	3
61	Developing reactors for electrifying bio-methanation: a perspective from bio-electrochemistry. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1249-1263.	4.9	3
62	Perspectives on Process Analysis for Advanced Biofuel Production. , 2015, , 33-60.		2
63	Biorefinery ethanol upgrading: Opportunities and challenges. <i>Joule</i> , 2021, 5, 524-526.	24.0	2
64	Long-term variability in sugarcane bagasse feedstock compositional methods: sources and magnitude of analytical variability. <i>Biotechnology for Biofuels</i> , 2016, 9, 223.	6.2	1
65	(Invited) Techno-Economic Analysis of Utilizing Electricity to Produce Intermediates from CO ₂ . <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1362-1362.	0.0	0