

Yuanhui Zhang

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.

90
papers

3,728
citations

36
h-index

60
g-index

92
ext. papers

4,481
ext. citations

8.7
avg, IF

5.74
L-index

#	Paper	IF	Citations
90	Distributions of carbon and nitrogen in the products from hydrothermal liquefaction of low-lipid microalgae. <i>Energy and Environmental Science</i> , 2011 , 4, 4587	35.4	262
89	Hydrothermal liquefaction for algal biorefinery: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 38, 933-950	16.2	258
88	Hydrothermal liquefaction of mixed-culture algal biomass from wastewater treatment system into bio-crude oil. <i>Bioresource Technology</i> , 2014 , 152, 130-9	11	247
87	A synergistic combination of algal wastewater treatment and hydrothermal biofuel production maximized by nutrient and carbon recycling. <i>Energy and Environmental Science</i> , 2013 , 6, 3765	35.4	203
86	Conversion efficiency and oil quality of low-lipid high-protein and high-lipid low-protein microalgae via hydrothermal liquefaction. <i>Bioresource Technology</i> , 2014 , 154, 322-9	11	189
85	Co-liquefaction of swine manure and mixed-culture algal biomass from a wastewater treatment system to produce bio-crude oil. <i>Applied Energy</i> , 2014 , 128, 209-216	10.7	146
84	Hydrothermal liquefaction of <i>Chlorella pyrenoidosa</i> in sub- and supercritical ethanol with heterogeneous catalysts. <i>Bioresource Technology</i> , 2013 , 133, 389-97	11	119
83	Chemical characterization and anaerobic biodegradability of hydrothermal liquefaction aqueous products from mixed-culture wastewater algae. <i>Bioresource Technology</i> , 2015 , 178, 139-146	11	114
82	Valorization of hydrothermal liquefaction aqueous phase: pathways towards commercial viability. <i>Progress in Energy and Combustion Science</i> , 2020 , 77, 100819	33.6	98
81	Characterization of aqueous phase from the hydrothermal liquefaction of <i>Chlorella pyrenoidosa</i> . <i>Bioresource Technology</i> , 2015 , 184, 328-335	11	86
80	Energy and nutrient recovery efficiencies in biocrude oil produced via hydrothermal liquefaction of <i>Chlorella pyrenoidosa</i> . <i>RSC Advances</i> , 2014 , 4, 16958	3.7	79
79	Simultaneous production of biocrude oil and recovery of nutrients and metals from human feces via hydrothermal liquefaction. <i>Energy Conversion and Management</i> , 2017 , 134, 340-346	10.6	75
78	Effects of furan derivatives on biohydrogen fermentation from wet steam-exploded cornstalk and its microbial community. <i>Bioresource Technology</i> , 2015 , 175, 152-9	11	73
77	Anaerobic digestion of wastewater generated from the hydrothermal liquefaction of <i>Spirulina</i> : Toxicity assessment and minimization. <i>Energy Conversion and Management</i> , 2017 , 141, 420-428	10.6	73
76	Hydrothermal Liquefaction of Microalgae in an Ethanol/Water Co-Solvent To Produce Biocrude Oil. <i>Energy & Fuels</i> , 2014 , 28, 5178-5183	4.1	71
75	Towards biohythane production from biomass: Influence of operational stage on anaerobic fermentation and microbial community. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4429-4438	6.7	69
74	Nutrient Flows and Quality of Bio-crude Oil Produced via Catalytic Hydrothermal Liquefaction of Low-Lipid Microalgae. <i>Bioenergy Research</i> , 2014 , 7, 1317-1328	3.1	65

73	Renewable diesel blendstocks produced by hydrothermal liquefaction of wet biowaste. <i>Nature Sustainability</i> , 2018 , 1, 702-710	22.1	64
72	Hydrothermal liquefaction of harvested high-ash low-lipid algal biomass from Dianchi Lake: effects of operational parameters and relations of products. <i>Bioresource Technology</i> , 2015 , 184, 336-343	11	63
71	Synergistic and Antagonistic Interactions during Hydrothermal Liquefaction of Soybean Oil, Soy Protein, Cellulose, Xylose, and Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14501-14509	8.3	56
70	Elemental migration and characterization of products during hydrothermal liquefaction of cornstalk. <i>Bioresource Technology</i> , 2017 , 243, 9-16	11	54
69	Anaerobic co-digestion of chicken manure and microalgae <i>Chlorella</i> sp.: Methane potential, microbial diversity and synergistic impact evaluation. <i>Waste Management</i> , 2017 , 68, 120-127	8.6	52
68	Anaerobic digestion of post-hydrothermal liquefaction wastewater for improved energy efficiency of hydrothermal bioenergy processes. <i>Water Science and Technology</i> , 2015 , 72, 2139-47	2.2	50
67	Effect of ash on hydrothermal liquefaction of high-ash content algal biomass. <i>Algal Research</i> , 2017 , 25, 297-306	5	49
66	Recovery of reducing sugars and volatile fatty acids from cornstalk at different hydrothermal treatment severity. <i>Bioresource Technology</i> , 2016 , 199, 220-227	11	46
65	Effects of the extraction solvents in hydrothermal liquefaction processes: Biocrude oil quality and energy conversion efficiency. <i>Energy</i> , 2019 , 167, 189-197	7.9	46
64	Co-digestion of chicken manure and microalgae <i>Chlorella</i> 1067 grown in the recycled digestate: Nutrients reuse and biogas enhancement. <i>Waste Management</i> , 2017 , 70, 247-254	8.6	45
63	Inhibitors degradation and microbial response during continuous anaerobic conversion of hydrothermal liquefaction wastewater. <i>Science of the Total Environment</i> , 2018 , 630, 1124-1132	10.2	45
62	Nitrogen Migration and Transformation during Hydrothermal Liquefaction of Livestock Manures. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13570-13578	8.3	44
61	Integrated anaerobic digestion and algae cultivation for energy recovery and nutrient supply from post-hydrothermal liquefaction wastewater. <i>Bioresource Technology</i> , 2018 , 266, 349-356	11	43
60	Anaerobic conversion of the hydrothermal liquefaction aqueous phase: fate of organics and intensification with granule activated carbon/ozone pretreatment. <i>Green Chemistry</i> , 2019 , 21, 1305-1318 ¹⁰		42
59	Physical pretreatments of wastewater algae to reduce ash content and improve thermal decomposition characteristics. <i>Bioresource Technology</i> , 2014 , 169, 816-820	11	42
58	Bioprocess engineering for biohythane production from low-grade waste biomass: technical challenges towards scale up. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 25-31	11.4	41
57	Experimental and model enhancement of food waste hydrothermal liquefaction with combined effects of biochemical composition and reaction conditions. <i>Bioresource Technology</i> , 2019 , 284, 139-147 ¹¹		40
56	Environment-enhancing process for algal wastewater treatment, heavy metal control and hydrothermal biofuel production: A critical review. <i>Bioresource Technology</i> , 2020 , 298, 122421	11	39

55	Nutrient recovery and biomass production by cultivating <i>Chlorella vulgaris</i> 1067 from four types of post-hydrothermal liquefaction wastewater. <i>Journal of Applied Phycology</i> , 2016 , 28, 1031-1039	3.2	36
54	Hydrothermal Liquefaction to Convert Biomass into Crude Oil 2010 , 201-232		33
53	Biogas liquid digestate grown <i>Chlorella</i> sp. for biocrude oil production via hydrothermal liquefaction. <i>Science of the Total Environment</i> , 2018 , 635, 70-77	10.2	32
52	Influence of catalysts on hydrogen production from wastewater generated from the HTL of human feces via catalytic hydrothermal gasification. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20503-20511	6.7	32
51	An Overview of Room Air Motion Measurement: Technology and Application. <i>HVAC and R Research</i> , 2007 , 13, 929-950		29
50	Algae biomass as a precursor for synthesis of nitrogen-and sulfur-co-doped carbon dots: A better probe in <i>Arabidopsis</i> guard cells and root tissues. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 174, 315-322	6.7	28
49	Improved methane production and energy recovery of post-hydrothermal liquefaction waste water via integration of zeolite adsorption and anaerobic digestion. <i>Science of the Total Environment</i> , 2019 , 651, 61-69	10.2	28
48	Extract Nitrogen-Containing Compounds in Biocrude Oil Converted from Wet Biowaste via Hydrothermal Liquefaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2182-2190	8.3	26
47	Performance and microbial community of carbon nanotube fixed-bed microbial fuel cell continuously fed with hydrothermal liquefied cornstalk biomass. <i>Bioresource Technology</i> , 2015 , 185, 294-301	11	24
46	Biohythane production of post-hydrothermal liquefaction wastewater: A comparison of two-stage fermentation and catalytic hydrothermal gasification. <i>Bioresource Technology</i> , 2019 , 274, 335-342	11	23
45	Moisture effects on gas-phase biofilter ammonia removal efficiency, nitrous oxide generation, and microbial communities. <i>Journal of Hazardous Materials</i> , 2014 , 271, 292-301	12.8	22
44	Biocrude Oil Production through the Maillard Reaction between Leucine and Glucose during Hydrothermal Liquefaction. <i>Energy & Fuels</i> , 2019 , 33, 8758-8765	4.1	21
43	110th Anniversary: Influence of Solvents on Biocrude from Hydrothermal Liquefaction of Soybean Oil, Soy Protein, Cellulose, Xylose, and Lignin, and Their Quinary Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 13971-13976	3.9	18
42	Pretreatment of pig manure liquid digestate for microalgae cultivation via innovative flocculation-biological contact oxidation approach. <i>Science of the Total Environment</i> , 2019 , 694, 133720	10.2	17
41	Seasonal Patterns in Microbial Community Composition in Denitrifying Bioreactors Treating Subsurface Agricultural Drainage. <i>Microbial Ecology</i> , 2015 , 70, 710-23	4.4	16
40	Natural light-micro aerobic condition for PSB wastewater treatment: a flexible, simple, and effective resource recovery wastewater treatment process. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 74-82	2.6	16
39	Product and Economic Analysis of Direct Liquefaction of Swine Manure. <i>Bioenergy Research</i> , 2011 , 4, 324-333	3.1	15
38	Performance Evaluation of Mesophilic Anaerobic Digestion of Chicken Manure with Algal Digestate. <i>Energies</i> , 2018 , 11, 1829	3.1	14

37	Continuous treatment of hydrothermal liquefaction wastewater in an anaerobic biofilm reactor: Potential role of granular activated carbon. <i>Journal of Cleaner Production</i> , 2020 , 276, 122836	10.3	14
36	Improve the biodegradability of post-hydrothermal liquefaction wastewater with ozone: conversion of phenols and N-heterocyclic compounds. <i>Water Science and Technology</i> , 2017 , 2017, 248-255 ^{2,2}	2.2	14
35	Analysis of particle-borne odorants emitted from concentrated animal feeding operations. <i>Science of the Total Environment</i> , 2014 , 490, 322-33	10.2	12
34	Establishment and performance of a plug-flow continuous hydrothermal reactor for biocrude oil production. <i>Fuel</i> , 2020 , 280, 118605	7.1	12
33	Comparative production of biochars from corn stalk and cow manure. <i>Bioresource Technology</i> , 2019 , 291, 121855	11	11
32	Sampling Efficiency of the Tsi Aerodynamic Particle Sizer. <i>Instrumentation Science and Technology</i> , 1998 , 26, 363-373	1.4	11
31	Using co-metabolism to accelerate synthetic starch wastewater degradation and nutrient recovery in photosynthetic bacterial wastewater treatment technology. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 775-84	2.6	10
30	Comparing three methods for photosynthetic bacteria separation and recycling during wastewater treatment. <i>Desalination and Water Treatment</i> , 2016 , 57, 12467-12477		9
29	Effect of Aging in Nitrogen and Air on the Properties of Biocrude Produced by Hydrothermal Liquefaction of Spirulina. <i>Energy & Fuels</i> , 2019 , 33, 9870-9878	4.1	8
28	Reduce recalcitrance of cornstalk using post-hydrothermal liquefaction wastewater pretreatment. <i>Bioresource Technology</i> , 2019 , 279, 57-66	11	8
27	Hydroponic Lettuce Production Using Treated Post-Hydrothermal Liquefaction Wastewater (PHW). <i>Sustainability</i> , 2019 , 11, 3605	3.6	8
26	Biocrude Oil from Algal Bloom Microalgae: A Novel Integration of Biological and Thermochemical Techniques. <i>Environmental Science & Technology</i> , 2021 , 55, 1973-1983	10.3	8
25	Investigation of combustion and spray of biowaste based fuel and diesel blends. <i>Fuel</i> , 2020 , 268, 117382	7.1	7
24	Zeolite-amended microalgal-bacterial system in a membrane photobioreactor for promoting system stability, biomass production, and wastewater treatment efficiency to realize Environmental-Enhancing Energy paradigm. <i>Journal of Applied Phycology</i> , 2019 , 31, 335-344	3.2	6
23	Airborne exposure patterns from a passenger source in aircraft cabins. <i>HVAC and R Research</i> , 2013 , 19, 962-73		6
22	Anaerobic digestion of aqueous phase from hydrothermal liquefaction of Spirulina using biostimulated sludge. <i>Bioresource Technology</i> , 2020 , 312, 123552	11	6
21	An innovative multistage anaerobic hythane reactor (MAHR): Metabolic flux, thermodynamics and microbial functions. <i>Water Research</i> , 2020 , 169, 115216	12.5	6
20	Hydrothermal liquefaction accelerates the toxicity and solubility of arsenic in biowaste. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126341	12.8	6

19	Development of a mobile, pilot scale hydrothermal liquefaction reactor: Food waste conversion product analysis and techno-economic assessment. <i>Energy Conversion and Management: X</i> , 2021 , 10, 100076	2.5	5
18	Effect of biomass origins and composition on stability of hydrothermal biocrude oil. <i>Fuel</i> , 2021 , 302, 121138	3.8	5
17	Fate and transport of estrogenic compounds in an integrated swine manure treatment systems combining algal-bacterial bioreactor and hydrothermal processes for improved water quality. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 16800-16813	5.1	4
16	3D real-time volumetric particle tracking velocimetry [A promising tool for studies of airflow around high-rise buildings. <i>Building and Environment</i> , 2020 , 178, 106930	6.5	4
15	Renewable diesel blendstocks and bioprivileged chemicals distilled from algal biocrude oil converted via hydrothermal liquefaction. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5165-5178	5.8	4
14	Towards transportation fuel production from food waste: Potential of biocrude oil distillates for gasoline, diesel, and jet fuel. <i>Fuel</i> , 2021 , 301, 121028	7.1	4
13	Adsorption or direct interspecies electron transfer? A comprehensive investigation of the role of biochar in anaerobic digestion of hydrothermal liquefaction aqueous phase. <i>Chemical Engineering Journal</i> , 2022 , 435, 135078	14.7	3
12	Characterization and bioremediation potential of byproducts from hydrothermal liquefaction of food wastes. <i>Bioresource Technology Reports</i> , 2020 , 12, 100555	4.1	3
11	Laboratory testing of flat oval transitions to determine loss coefficients (RP-1606). <i>Science and Technology for the Built Environment</i> , 2015 , 21, 386-395	1.8	2
10	Hydrothermal conversion of anaerobic wastewater fed microalgae: effects of reaction temperature on products distribution and biocrude properties. <i>IET Renewable Power Generation</i> , 2019 , 13, 2215-2220 ^{2.9}	2.9	2
9	Enhancing energy recovery via two stage co-fermentation of hydrothermal liquefaction aqueous phase and crude glycerol. <i>Energy Conversion and Management</i> , 2021 , 231, 113855	10.6	2
8	Experimental and Numerical Model Investigations of Oxygen-Enriched Characteristics in Air-Conditioned Rooms. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4733	2.6	2
7	Spray and combustion characteristics of pure hydrothermal liquefaction biofuel and mixture blends with diesel. <i>Fuel</i> , 2021 , 294, 120498	7.1	2
6	The application of an absorbent-amended microalgal-bacterial system for enhancing hydrothermal liquefaction wastewater treatment and resource recovery. <i>Journal of Applied Phycology</i> , 2021 , 33, 79-90 ^{3.2}	3.2	2
5	Hydrothermal processes for simultaneous bioenergy recovery and destruction of bioactive microconstituents from biosolids. <i>Proceedings of the Water Environment Federation</i> , 2017 , 2017, 329-359		1
4	A GPU-accelerated particle-detection algorithm for real-time volumetric particle-tracking velocimetry under non-uniform illumination. <i>Measurement Science and Technology</i> , 2021 , 32, 105304	2	1
3	In Situ hydrochar regulates Cu fate and speciation: Insights into transformation mechanism. <i>Journal of Hazardous Materials</i> , 2021 , 410, 124616	12.8	1
2	Testing the plastic-wrapped composting system to dispose of swine mortalities during an animal disease outbreak. <i>Journal of Environmental Quality</i> , 2021 , 50, 899-910	3.4	0

- 1 Water Footprint Assessment of Eggs in a Parent-Stock Layer Breeder Farm. *Water (Switzerland)*, **2019**, 11, 2546 3