

# Catherine E Brewer

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,532  
citations

361045

20  
h-index

360668

35  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3410  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-crude oil production and valorization of hydrochar as anode material from hydrothermal liquefaction of algae grown on brackish dairy wastewater. <i>Fuel Processing Technology</i> , 2022, 227, 107119.	3.7	11
2	Pecan ( <i>Carya illinoensis</i> ) and Dairy Waste Stream Utilization: Properties and Economics of On-Farm Windrow Systems. <i>Sustainability</i> , 2022, 14, 2550.	1.6	2
3	Best practices for bio-crude oil production at pilot scale using continuous flow reactors. , 2022, , 1061-1119.		1
4	Potential of hemp ( <i>Cannabis sativa</i> L.) for paired phytoremediation and bioenergy production. <i>GCB Bioenergy</i> , 2021, 13, 525-536.	2.5	49
5	Exploring spent biomass-derived adsorbents as anodes for lithium ion batteries. <i>Materials Today Energy</i> , 2021, 19, 100580.	2.5	10
6	Waste-to-wealth application of wastewater treatment algae-derived hydrochar for Pb(II) adsorption. <i>MethodsX</i> , 2021, 8, 101263.	0.7	9
7	Hydrothermal Liquefaction of Food Waste: Effect of Process Parameters on Product Yields and Chemistry. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	26
8	Ash-pretreatment and hydrothermal liquefaction of filamentous algae grown on dairy wastewater. <i>Algal Research</i> , 2021, 57, 102282.	2.4	13
9	Integrated Extraction and Catalytic Upgrading of Biocrude Oil from Co-hydrothermal Liquefaction of Crude Glycerol and Algae. <i>Energy &amp; Fuels</i> , 2021, 35, 12165-12174.	2.5	6
10	Guayule ( <i>Parthenium argentatum</i> ) resin: A review of chemistry, extraction techniques, and applications. <i>Industrial Crops and Products</i> , 2021, 165, 113410.	2.5	22
11	Recovery of Nitrogen from Low-Cost Plant Feedstocks Used for Bioenergy: A Review of Availability and Process Order. <i>Energy &amp; Fuels</i> , 2021, 35, 14361-14381.	2.5	1
12	Recovery of struvite from hydrothermally processed algal biomass cultivated in urban wastewaters. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105089.	5.3	31
13	Co-hydrothermal liquefaction of wastewater-grown algae and crude glycerol: A novel strategy of bio-crude oil-aqueous separation and techno-economic analysis for bio-crude oil recovery and upgrading. <i>Algal Research</i> , 2020, 51, 102077.	2.4	20
14	Impact of feedstock composition on pyrolysis of low-cost, protein- and lignin-rich biomass: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104780.	2.6	93
15	Characterization of resin extracted from guayule ( <i>Parthenium argentatum</i> ): A dataset including GC-MS and FT-ICR MS. <i>Data in Brief</i> , 2020, 31, 105989.	0.5	10
16	Characterization and evaluation of guayule processing residues as potential feedstock for biofuel and chemical production. <i>Industrial Crops and Products</i> , 2020, 150, 112311.	2.5	34
17	Roles of Co-solvents in hydrothermal liquefaction of low-lipid, high-protein algae. <i>Bioresource Technology</i> , 2020, 310, 123454.	4.8	38
18	Hydrothermal liquefaction of <i>Galdieria sulphuraria</i> grown on municipal wastewater. <i>Bioresource Technology</i> , 2019, 292, 121884.	4.8	55

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19	Short-term leachability of salts from Atriplex-derived biochars. <i>Science of the Total Environment</i> , 2019, 688, 701-707.	3.9	5
20	Bio-crude oil from hydrothermal liquefaction of wastewater microalgae in a pilot-scale continuous flow reactor. <i>Bioresource Technology</i> , 2019, 294, 122184.	4.8	49
21	&lt;i>&gt;Co-Products and Biofuels from Guar and Guayule Processing Residues&lt;/i>. , 2019, , .		2
22	&lt;i>&gt;Roles of Co-solvents in Hydrothermal Liquefaction of Protein-Rich Algae&lt;/i>. , 2019, , .		1
23	&lt;i>&gt;Adsorption of Hydrogen Sulfide on Biochars from Pallet Wood Waste&lt;/i>. , 2019, , .		0
24	&lt;i>&gt;Hydrothermal liquefaction value-added products and compost applications for plant and environmental enhancement&lt;/i>. , 2019, , .		0
25	&lt;i>&gt;Hydrothermal Liquefaction of Food Waste: Bio-crude oil Characterization, Mass and Energy Balance&lt;/i>. , 2019, , .		4
26	Modification of a pilot-scale continuous flow reactor for hydrothermal liquefaction of wet biomass. <i>MethodsX</i> , 2019, 6, 2793-2806.	0.7	10
27	Hydrothermal liquefaction of high- and low-lipid algae: Mass and energy balances. <i>Bioresource Technology</i> , 2018, 258, 158-167.	4.8	81
28	&lt;i>&gt;Pretreatment and Hydrothermal Liquefaction of Filamentous Algae Grown on Dairy Wastewater&lt;/i>. , 2018, , .		0
29	&lt;i>&gt;Pyrolysis of Wood Excelsior Residues for Biochar and Renewable Energy Production&lt;/i>. , 2018, , .		2
30	Potential of pyrolysis of spacecraft solid waste for water recovery and plant-growth media production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 184-188.	2.6	3
31	&lt;i>&gt;Hydrothermal Liquefaction of Algae Grown on Brackish Dairy Wastewater&lt;/i>. , 2018, , .		2
32	Producing jet fuel from biomass lignin: Potential pathways to alkyl-benzenes and cycloalkanes. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 673-722.	8.2	168
33	Ex-situ catalytic pyrolysis of wastewater sewage sludge â€œ A micro-pyrolysis study. <i>Bioresource Technology</i> , 2017, 232, 229-234.	4.8	59
34	Hydrothermal liquefaction of high- and low-lipid algae: Bio-crude oil chemistry. <i>Applied Energy</i> , 2017, 206, 278-292.	5.1	101
35	Temperature and reaction atmosphere effects on the properties of corn stover biochar. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 696-707.	1.3	17
36	&lt;i>&gt;Effects of Pyrolysis Conditions on Leaching of Salts from Halophyte Biochars&lt;/i>. , 2017, , .		1

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37	&lt;i&gt;Hydrothermal Liquefaction of <i>Galdieria sulphuraria</i> Grown on Municipal Wastewater&lt;/i&gt;. , 2017, , .		1
38	Using Agricultural Residue Biochar to Improve Soil Quality of Desert Soils. <i>Agriculture (Switzerland)</i> , 2016, 6, 10.	1.4	28
39	Nutrient Transport in Soils Amended with Biochar: A Transient Model with Two Stationary Phases and Intraparticle Diffusion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 4123-4135.	1.8	12
40	New approaches to measuring biochar density and porosity. <i>Biomass and Bioenergy</i> , 2014, 66, 176-185.	2.9	412
41	Biochar as a Substitute for Vermiculite in Potting Mix for Hybrid Poplar. <i>Bioenergy Research</i> , 2014, 7, 120-131.	2.2	53
42	Extent of Pyrolysis Impacts on Fast Pyrolysis Biochar Properties. <i>Journal of Environmental Quality</i> , 2012, 41, 1115-1122.	1.0	80
43	Biochar. , 2012, , 357-384.		27
44	Comparison of kiln-derived and gasifier-derived biochars as soil amendments in the humid tropics. <i>Biomass and Bioenergy</i> , 2012, 37, 161-168.	2.9	87
45	Effects of Soil Application of Different Biochars on Selected Soil Chemical Properties. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 2310-2321.	0.6	14
46	Criteria to Select Biochars for Field Studies based on Biochar Chemical Properties. <i>Bioenergy Research</i> , 2011, 4, 312-323.	2.2	231
47	Characterization of biochar from fast pyrolysis and gasification systems. <i>Environmental Progress and Sustainable Energy</i> , 2009, 28, 386-396.	1.3	649
48	Simulation of small-scale thermal water desalination using biomass energy. , 0, 108, 65-75.		2