Catherine E Brewer

List of Publications by Year
in descending order

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	Characterization of biochar from fast pyrolysis and gasification systems. Environmental Progress and Sustainable Energy, 2009, 28, 386-396.	1.3	649
2	New approaches to measuring biochar density and porosity. Biomass and Bioenergy, 2014, 66, 176-185.	2.9	412
3	Criteria to Select Biochars for Field Studies based on Biochar Chemical Properties. Bioenergy Research, 2011, 4, 312-323.	2.2	231
4	Producing jet fuel from biomass lignin: Potential pathways to alkyl-benzenes and cycloalkanes. Renewable and Sustainable Energy Reviews, 2017, 72, 673-722.	8.2	168
5	Hydrothermal liquefaction of high- and low-lipid algae: Bio-crude oil chemistry. Applied Energy, 2017, 206, 278-292.	5.1	101
6	Impact of feedstock composition on pyrolysis of low-cost, protein- and lignin-rich biomass: A review. Journal of Analytical and Applied Pyrolysis, 2020, 147, 104780.	2.6	93
7	Comparison of kiln-derived and gasifier-derived biochars as soil amendments in the humid tropics. Biomass and Bioenergy, 2012, 37, 161-168.	2.9	87
8	Hydrothermal liquefaction of high- and low-lipid algae: Mass and energy balances. Bioresource Technology, 2018, 258, 158-167.	4.8	81
9	Extent of Pyrolysis Impacts on Fast Pyrolysis Biochar Properties. Journal of Environmental Quality, 2012, 41, 1115-1122.	1.0	80
10	Ex-situ catalytic pyrolysis of wastewater sewage sludge â€“ A micro-pyrolysis study. Bioresource Technology, 2017, 232, 229-234.	4.8	59
11	Hydrothermal liquefaction of Galdieria sulphuraria grown on municipal wastewater. Bioresource Technology, 2019, 292, 121884.	4.8	55
12	Biochar as a Substitute for Vermiculite in Potting Mix for Hybrid Poplar. Bioenergy Research, 2014, 7, 120-131.	2.2	53
13	Bio-crude oil from hydrothermal liquefaction of wastewater microalgae in a pilot-scale continuous flow reactor. Bioresource Technology, 2019, 294, 122184.	4.8	49
14	Potential of hemp (Cannabis sativa L.) for paired phytoremediation and bioenergy production. GCB Bioenergy, 2021, 13, 525-536.	2.5	49
15	Roles of Co-solvents in hydrothermal liquefaction of low-lipid, high-protein algae. Bioresource Technology, 2020, 310, 123454.	4.8	38
16	Characterization and evaluation of guayule processing residues as potential feedstock for biofuel and chemical production. Industrial Crops and Products, 2020, 150, 112311.	2.5	34
17	Recovery of struvite from hydrothermally processed algal biomass cultivated in urban wastewaters. Resources, Conservation and Recycling, 2020, 163, 105089.	5.3	31
18	Using Agricultural Residue Biochar to Improve Soil Quality of Desert Soils. Agriculture (Switzerland), 2016, 6, 10.	1.4	28

#	Article	IF	Citations
19	Biochar. , 2012, , 357-384.		27
20	Hydrothermal Liquefaction of Food Waste: Effect of Process Parameters on Product Yields and Chemistry. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	26
21	Guayule (Parthenium argentatum) resin: A review of chemistry, extraction techniques, and applications. Industrial Crops and Products, 2021, 165, 113410.	2.5	22
22	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. Algal Research, 2020, 51, 102077.	2.4	20
23	Temperature and reaction atmosphere effects on the properties of corn stover biochar. Environmental Progress and Sustainable Energy, 2017, 36, 696-707.	1.3	17
24	Effects of Soil Application of Different Biochars on Selected Soil Chemical Properties. Communications in Soil Science and Plant Analysis, 2011, 42, 2310-2321.	0.6	14
25	Ash-pretreatment and hydrothermal liquefaction of filamentous algae grown on dairy wastewater. Algal Research, 2021, 57, 102282.	2.4	13
26	Nutrient Transport in Soils Amended with Biochar: A Transient Model with Two Stationary Phases and Intraparticle Diffusion. Industrial & Engineering Chemistry Research, 2015, 54, 4123-4135.	1.8	12
27	Bio-crude oil production and valorization of hydrochar as anode material from hydrothermal liquefaction of algae grown on brackish dairy wastewater. Fuel Processing Technology, 2022, 227, 107119.	3.7	11
28	Modification of a pilot-scale continuous flow reactor for hydrothermal liquefaction of wet biomass. MethodsX, 2019, 6, 2793-2806.	0.7	10
29	Characterization of resin extracted from guayule (Parthenium argentatum): A dataset including GCâ€“MS and FT-ICR MS. Data in Brief, 2020, 31, 105989.	0.5	10
30	Exploring spent biomass-derived adsorbents as anodes for lithium ion batteries. Materials Today Energy, 2021, 19, 100580.	2.5	10
31	Waste-to-wealth application of wastewater treatment algae-derived hydrochar for Pb(II) adsorption. MethodsX, 2021, 8, 101263.	0.7	9
32	Integrated Extraction and Catalytic Upgrading of Biocrude Oil from Co-hydrothermal Liquefaction of Crude Glycerol and Algae. Energy & Fuels, 2021, 35, 12165-12174.	2.5	6
33	Short-term leachability of salts from Atriplex-derived biochars. Science of the Total Environment, 2019, 688, 701-707.	3.9	5
34	<i>Hydrothermal Liquefaction of Food Waste: Bio-crude oil Characterization, Mass and Energy Balance</i>. , 2019, , .		4
35	Potential of pyrolysis of spacecraft solid waste for water recovery and plant-growth media production. Journal of Analytical and Applied Pyrolysis, 2018, 135, 184-188.	2.6	3
36	<i>Pyrolysis of Wood Excelsior Residues for Biochar and Renewable Energy Production</i>. , 2018, , .		2

#	Article	IF	Citations
37	<i>Hydrothermal Liquefaction of Algae Grown on Brackish Dairy Wastewater</i>. , 2018, , .		2
38	<i>Co-Products and Biofuels from Guar and Guayule Processing Residues</i>. , 2019, , .		2
39	Simulation of small-scale thermal water desalination using biomass energy. , 0, 108, 65-75.		2
40	Pecan (Carya illinoinensis) and Dairy Waste Stream Utilization: Properties and Economics of On-Farm Windrow Systems. Sustainability, 2022, 14, 2550.	1.6	2
41	<i>Effects of Pyrolysis Conditions on Leaching of Salts from Halophyte Biochars</i>. , 2017, , .		1
42	<i>Hydrothermal Liquefaction of Galdieria sulphuraria Grown on Municipal Wastewater</i>. , 2017, , .		1
43	<i>Roles of Co-solvents in Hydrothermal Liquefaction of Protein-Rich Algae</i>. , 2019, , .		1
44	Recovery of Nitrogen from Low-Cost Plant Feedstocks Used for Bioenergy: A Review of Availability and Process Order. Energy & Fuels, 2021, 35, 14361-14381.	2.5	1
45	Best practices for bio-crude oil production at pilot scale using continuous flow reactors. , 2022, , 1061-1119.		1
46	<i>Pretreatment and Hydrothermal Liquefaction of Filamentous Algae Grown on Dairy Wastewater</i>. , 2018, , .		0
47	<i>Adsorption of Hydrogen Sulfide on Biochars from Pallet Wood Waste</i>. , 2019, , .		0
48	<i>Hydrothermal liquefaction value-added products and compost applications for plant and environmental enhancement</i>. , 2019, , .		0