Bo Zhang

List of Publications by Year
in descending order

43 papers	1,495 citations	361296 20 h-index	330025 37 g-index
44 all docs	44 docs citations	44 times ranked	1784 citing authors

#	Article	IF	Citations
1	Cultivation of microalgae on agricultural wastewater for recycling energy, water, and fertilizer nutrients. , 2022, , 235-264.		3
2	Enhanced biomethane production via thermophilic anaerobic digestion of cattail amended with potassium phosphate- and magnesium-modified biochar. Clean Technologies and Environmental Policy, 2021, 23, 2399-2412.	2.1	7
3	Production and modification of hydrochar from anaerobically digested cattail for adsorbing ammonium and phosphorous in wastewater. Water Science and Technology, 2021, 84, 1678-1692.	1.2	2
4	Effects of Cd and Sn modified MCM-41 on pyrolysis of cellulose. Journal of Renewable and Sustainable Energy, 2021, 13, 013101.	0.8	2
5	Thermophilic anaerobic digestion of cattail and hydrothermal carbonization of the digestate for co-production of biomethane and hydrochar. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 230-238.	0.9	8
6	Microbial community dynamics during anaerobic co-digestion of corn stover and swine manure at different solid content, carbon to nitrogen ratio and effluent volumetric percentages. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 1111-1124.	0.9	6
7	A combined pretreatment, fermentation and ethanol-assisted liquefaction process for production of biofuel from Chlorella sp.. Fuel, 2019, 257, 116026.	3.4	25
8	Two-stage thermophilic anaerobic co-digestion of corn stover and cattle manure to enhance biomethane production. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 452-460.	0.9	17
9	A combined fermentation and ethanol-assisted liquefaction process to produce biofuel from Nannochloropsis sp.. Fuel, 2019, 238, 159-165.	3.4	22
10	Aerobic treatment of swine manure to enhance anaerobic digestion and microalgal cultivation. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2018, 53, 145-151.	0.7	8
11	Catalytic pyrolysis of raw and hydrothermally carbonized Chlamydomonas debaryana microalgae for denitrogenation and production of aromatic hydrocarbons. Fuel, 2018, 228, 234-242.	3.4	39
12	Hydrothermal Liquefaction Enhanced by Various Chemicals as a Means of Sustainable Dairy Manure Treatment. Sustainability, 2018, 10, 230.	1.6	23
13	The pyrolysis of duckweed over a solid base catalyst: Py-GC/MS and TGA analysis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 177-183.	1.2	21
14	Impact of molar ratio of total metal ions to precipitant on YAG:Ce nanophosphors synthesized by reverse titration coprecipitation. Ceramics International, 2017, 43, 8730-8734.	2.3	11
15	Catalytic Conversion of Chlamydomonas to Hydrocarbons via the Ethanol-Assisted Liquefaction and Hydrotreating Processes. Energy & Fuels, 2017, 31, 12223-12231.	2.5	14
16	Green Biorefinery of Giant Miscanthus for Growing Microalgae and Biofuel Production. Fermentation, 2017, 3, 66.	1.4	9
17	A Comparison of Energy Consumption in Hydrothermal Liquefaction and Pyrolysis of Microalgae. Trends in Renewable Energy, 2017, 3, 76-85.	0.1	26
18	Sustainable Production of Algal Biomass and Biofuels Using Swine Wastewater in North Carolina, US. Sustainability, 2016, 8, 477.	1.6	20

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19	Graphite encapsulated molybdenum carbide core/shell nanocomposite for highly selective conversion of guaiacol to phenolic compounds in methanol. Applied Catalysis A: General, 2016, 528, 123-130.	2.2	24
20	Catalytic hydroprocessing of microalgae-derived biofuels: a review. Green Chemistry, 2016, 18, 3684-3699.	4.6	134
21	Standards and Protocols for Characterization of Algae-Based Biofuels. Trends in Renewable Energy, 2016, 2, 56-60.	0.1	6
22	Characterization of Solid Residues Obtained from Supercritical Ethanol Liquefaction of Swine Manure. American Journal of Engineering and Applied Sciences, 2015, 8, 465-470.	0.3	5
23	Green biorefinery of fresh cattail for microalgal culture and ethanol production. Bioresource Technology, 2015, 185, 436-440.	4.8	21
24	Characteristics of Pine Gasification Ash and its Effects on Chlamydomonas debaryana Growth. BioResources, 2015, 11, .	0.5	1
25	Characterization of a Native Algae Species Chlamydomonas debaryana: Strain Selection, Bioremediation Ability, and Lipid Characterization. BioResources, 2014, 9, .	0.5	20
26	Characterization of the physical and chemical properties of the distillate fractions of crude bio-oil produced by the glycerol-assisted liquefaction of swine manure. Fuel, 2014, 130, 251-256.	3.4	34
27	Catalytic cracking of crude bio-oil from glycerol-assisted liquefaction of swine manure. Energy Conversion and Management, 2014, 87, 378-384.	4.4	40
28	Biological Conversion of Cattails for Ethanol Production: Pretreatment Technologies, Economic Analysis, and Environmental Impacts. , 2012, , .		0
29	Dilute-sulfuric acid pretreatment of cattails for cellulose conversion. Bioresource Technology, 2011, 102, 9308-9312.	4.8	43
30	Hot-water pretreatment of cattails for extraction of cellulose. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 819-824.	1.4	30
31	Recent Developments in Pretreatment Technologies for Production of Lignocellulosic Biofuels. Journal of Petroleum & Environmental Biotechnology, 2011, 02, .	0.3	49
32	Conversion Agricultural Residues to Bio-Crude Oil by Supercritical Water. , 2009, , .		0
33	Treatment Variable Effects on Supercritical Gasification of High-Diversity Grassland Perennials. Applied Biochemistry and Biotechnology, 2009, 154, 59-66.	1.4	6
34	Thermochemical liquefaction of high-diversity grassland perennials. Journal of Analytical and Applied Pyrolysis, 2009, 84, 18-24.	2.6	140
35	Microwave-assisted pyrolysis of biomass: Catalysts to improve product selectivity. Journal of Analytical and Applied Pyrolysis, 2009, 86, 161-167.	2.6	253
36	Reaction Kinetics of the Hydrothermal Treatment of Lignin. Applied Biochemistry and Biotechnology, 2008, 147, 119-131.	1.4	139

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37	Thermal Effects on Hydrothermal Biomass Liquefaction. Applied Biochemistry and Biotechnology, 2008, 147, 143-150.	1.4	84
38	Maximizing the liquid fuel yield in a biorefining process. Biotechnology and Bioengineering, 2008, 101, 903-912.	1.7	34
39	Thermal Effects on Hydrothermal Biomass Liquefaction. , 2008, , 511-518.		5
40	Reaction Kinetics of the Hydrothermal Treatment of Lignin. , 2007, , 487-499.		96
41	Engineering the Monomer Composition of Polyhydroxyalkanoates Synthesized in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2006, 72, 536-543.	1.4	60
42	Novel Synthesis Routes for Polyhydroxyalkanoic Acids with Unique Properties. ACS Symposium Series, 2005, , 292-301.	0.5	3
43	Biorefinery Processes for Biomass Conversion to Liquid Fuel. , 0, , .		5