

# Bo Zhang

## List of Publications by Year in descending order

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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	Microwave-assisted pyrolysis of biomass: Catalysts to improve product selectivity. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 86, 161-167.	2.6	253
2	Thermochemical liquefaction of high-diversity grassland perennials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 84, 18-24.	2.6	140
3	Reaction Kinetics of the Hydrothermal Treatment of Lignin. <i>Applied Biochemistry and Biotechnology</i> , 2008, 147, 119-131.	1.4	139
4	Catalytic hydroprocessing of microalgae-derived biofuels: a review. <i>Green Chemistry</i> , 2016, 18, 3684-3699.	4.6	134
5	Reaction Kinetics of the Hydrothermal Treatment of Lignin. , 2007, , 487-499.		96
6	Thermal Effects on Hydrothermal Biomass Liquefaction. <i>Applied Biochemistry and Biotechnology</i> , 2008, 147, 143-150.	1.4	84
7	Engineering the Monomer Composition of Polyhydroxyalkanoates Synthesized in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 536-543.	1.4	60
8	Recent Developments in Pretreatment Technologies for Production of Lignocellulosic Biofuels. <i>Journal of Petroleum &amp; Environmental Biotechnology</i> , 2011, 02, .	0.3	49
9	Dilute-sulfuric acid pretreatment of cattails for cellulose conversion. <i>Bioresource Technology</i> , 2011, 102, 9308-9312.	4.8	43
10	Catalytic cracking of crude bio-oil from glycerol-assisted liquefaction of swine manure. <i>Energy Conversion and Management</i> , 2014, 87, 378-384.	4.4	40
11	Catalytic pyrolysis of raw and hydrothermally carbonized <i>Chlamydomonas debaryana</i> microalgae for denitrogenation and production of aromatic hydrocarbons. <i>Fuel</i> , 2018, 228, 234-242.	3.4	39
12	Maximizing the liquid fuel yield in a biorefining process. <i>Biotechnology and Bioengineering</i> , 2008, 101, 903-912.	1.7	34
13	Characterization of the physical and chemical properties of the distillate fractions of crude bio-oil produced by the glycerol-assisted liquefaction of swine manure. <i>Fuel</i> , 2014, 130, 251-256.	3.4	34
14	Hot-water pretreatment of cattails for extraction of cellulose. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 819-824.	1.4	30
15	A Comparison of Energy Consumption in Hydrothermal Liquefaction and Pyrolysis of Microalgae. <i>Trends in Renewable Energy</i> , 2017, 3, 76-85.	0.1	26
16	A combined pretreatment, fermentation and ethanol-assisted liquefaction process for production of biofuel from <i>Chlorella</i> sp.. <i>Fuel</i> , 2019, 257, 116026.	3.4	25
17	Graphite encapsulated molybdenum carbide core/shell nanocomposite for highly selective conversion of guaiacol to phenolic compounds in methanol. <i>Applied Catalysis A: General</i> , 2016, 528, 123-130.	2.2	24
18	Hydrothermal Liquefaction Enhanced by Various Chemicals as a Means of Sustainable Dairy Manure Treatment. <i>Sustainability</i> , 2018, 10, 230.	1.6	23

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19	A combined fermentation and ethanol-assisted liquefaction process to produce biofuel from <i>Nannochloropsis</i> sp.. <i>Fuel</i> , 2019, 238, 159-165.	3.4	22
20	Green biorefinery of fresh cattail for microalgal culture and ethanol production. <i>Bioresource Technology</i> , 2015, 185, 436-440.	4.8	21
21	The pyrolysis of duckweed over a solid base catalyst: Py-GC/MS and TGA analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 177-183.	1.2	21
22	Characterization of a Native Algae Species <i>Chlamydomonas debaryana</i> : Strain Selection, Bioremediation Ability, and Lipid Characterization. <i>BioResources</i> , 2014, 9, .	0.5	20
23	Sustainable Production of Algal Biomass and Biofuels Using Swine Wastewater in North Carolina, US. <i>Sustainability</i> , 2016, 8, 477.	1.6	20
24	Two-stage thermophilic anaerobic co-digestion of corn stover and cattle manure to enhance biomethane production. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 452-460.	0.9	17
25	Catalytic Conversion of <i>Chlamydomonas</i> to Hydrocarbons via the Ethanol-Assisted Liquefaction and Hydrotreating Processes. <i>Energy &amp; Fuels</i> , 2017, 31, 12223-12231.	2.5	14
26	Impact of molar ratio of total metal ions to precipitant on YAG:Ce nanophosphors synthesized by reverse titration coprecipitation. <i>Ceramics International</i> , 2017, 43, 8730-8734.	2.3	11
27	Green Biorefinery of Giant <i>Miscanthus</i> for Growing Microalgae and Biofuel Production. <i>Fermentation</i> , 2017, 3, 66.	1.4	9
28	Aerobic treatment of swine manure to enhance anaerobic digestion and microalgal cultivation. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2018, 53, 145-151.	0.7	8
29	Thermophilic anaerobic digestion of cattail and hydrothermal carbonization of the digestate for co-production of biomethane and hydrochar. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 230-238.	0.9	8
30	Enhanced biomethane production via thermophilic anaerobic digestion of cattail amended with potassium phosphate- and magnesium-modified biochar. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 2399-2412.	2.1	7
31	Treatment Variable Effects on Supercritical Gasification of High-Diversity Grassland Perennials. <i>Applied Biochemistry and Biotechnology</i> , 2009, 154, 59-66.	1.4	6
32	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. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 1111-1124.	0.9	6
33	Standards and Protocols for Characterization of Algae-Based Biofuels. <i>Trends in Renewable Energy</i> , 2016, 2, 56-60.	0.1	6
34	Biorefinery Processes for Biomass Conversion to Liquid Fuel. , 0, , .		5
35	Characterization of Solid Residues Obtained from Supercritical Ethanol Liquefaction of Swine Manure. <i>American Journal of Engineering and Applied Sciences</i> , 2015, 8, 465-470.	0.3	5
36	Thermal Effects on Hydrothermal Biomass Liquefaction. , 2008, , 511-518.		5

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37	Novel Synthesis Routes for Polyhydroxyalkanoic Acids with Unique Properties. ACS Symposium Series, 2005, , 292-301.	0.5	3
38	Cultivation of microalgae on agricultural wastewater for recycling energy, water, and fertilizer nutrients. , 2022, , 235-264.		3
39	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
40	Effects of Cd and Sn modified MCM-41 on pyrolysis of cellulose. Journal of Renewable and Sustainable Energy, 2021, 13, 013101.	0.8	2
41	Characteristics of Pine Gasification Ash and its Effects on Chlamydomonas debaryana Growth. BioResources, 2015, 11, .	0.5	1
42	Conversion Agricultural Residues to Bio-Crude Oil by Supercritical Water. , 2009, , .		0
43	Biological Conversion of Cattails for Ethanol Production: Pretreatment Technologies, Economic Analysis, and Environmental Impacts. , 2012, , .		0