

Zhiyou Wen

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.

82

papers

4,301

citations

36

h-index

65

g-index

83

ext. papers

5,006

ext. citations

6.5

avg, IF

6.12

L-index

#	Paper	IF	Citations
82	Production of Biodiesel Fuel from the Microalga <i>Schizochytrium limacinum</i> by Direct Transesterification of Algal Biomass. <i>Energy & Fuels</i> , 2009 , 23, 5179-5183	4.1	386
81	Enhancing enzymatic digestibility of switchgrass by microwave-assisted alkali pretreatment. <i>Biochemical Engineering Journal</i> , 2008 , 38, 369-378	4.2	325
80	Development of an attached microalgal growth system for biofuel production. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 525-34	5.7	274
79	Producing docosahexaenoic acid (DHA)-rich algae from biodiesel-derived crude glycerol: effects of impurities on DHA production and algal biomass composition. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 3933-9	5.7	244
78	Development of a rotating algal biofilm growth system for attached microalgae growth with in situ biomass harvest. <i>Bioresource Technology</i> , 2013 , 150, 195-201	11	179
77	Continuous culture of the microalgae <i>Schizochytrium limacinum</i> on biodiesel-derived crude glycerol for producing docosahexaenoic acid. <i>Bioresource Technology</i> , 2011 , 102, 88-93	11	159
76	Use of microalgae to recycle nutrients in aqueous phase derived from hydrothermal liquefaction process. <i>Bioresource Technology</i> , 2018 , 256, 529-542	11	158
75	Biofilm-based algal cultivation systems. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 5781-9	5.7	136
74	Use of microalgae based technology for the removal of antibiotics from wastewater: A review. <i>Chemosphere</i> , 2020 , 238, 124680	8.4	129
73	Syngas fermentation of <i>Clostridium carboxidivoran</i> P7 in a hollow fiber membrane biofilm reactor: Evaluating the mass transfer coefficient and ethanol production performance. <i>Biochemical Engineering Journal</i> , 2014 , 85, 21-29	4.2	107
72	Use of biodiesel-derived crude glycerol for producing eicosapentaenoic acid (EPA) by the fungus <i>Pythium irregulare</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 2739-44	5.7	103
71	Microalgae flocculation: Impact of flocculant type, algae species and cell concentration. <i>Algal Research</i> , 2014 , 3, 30-35	5	101
70	Hybrid thermochemical processing: fermentation of pyrolysis-derived bio-oil. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 1519-23	5.7	87
69	Yearlong evaluation of performance and durability of a pilot-scale Revolving Algal Biofilm (RAB) cultivation system. <i>Bioresource Technology</i> , 2014 , 171, 50-8	11	86
68	Enhancing anaerobic digestibility and phosphorus recovery of dairy manure through microwave-based thermochemical pretreatment. <i>Water Research</i> , 2009 , 43, 3493-502	12.5	77
67	Enhancing mass transfer and ethanol production in syngas fermentation of <i>Clostridium carboxidivorans</i> P7 through a monolithic biofilm reactor. <i>Applied Energy</i> , 2014 , 136, 68-76	10.7	71
66	Deletion of meso-2,3-butanediol dehydrogenase gene <i>budC</i> for enhanced D-2,3-butanediol production in <i>Bacillus licheniformis</i> . <i>Biotechnology for Biofuels</i> , 2014 , 7, 16	7.8	69

65	Effects of the surface physico-chemical properties and the surface textures on the initial colonization and the attached growth in algal biofilm. <i>Biotechnology for Biofuels</i> , 2016 , 9, 38	7.8	68
64	Overliming detoxification of pyrolytic sugar syrup for direct fermentation of levoglucosan to ethanol. <i>Bioresource Technology</i> , 2013 , 150, 220-7	11	68
63	Syngas fermentation by <i>Clostridium carboxidivorans</i> P7 in a horizontal rotating packed bed biofilm reactor with enhanced ethanol production. <i>Applied Energy</i> , 2017 , 187, 585-594	10.7	67
62	A thermochemical-biochemical hybrid processing of lignocellulosic biomass for producing fuels and chemicals. <i>Biotechnology Advances</i> , 2015 , 33, 1799-813	17.8	64
61	Sustainable Biocement Production via Microbially Induced Calcium Carbonate Precipitation: Use of Limestone and Acetic Acid Derived from Pyrolysis of Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5183-5190	8.3	60
60	Engineering <i>Bacillus licheniformis</i> for the production of meso-2,3-butanediol. <i>Biotechnology for Biofuels</i> , 2016 , 9, 117	7.8	60
59	Recovery and Utilization of Lignin Monomers as Part of the Biorefinery Approach. <i>Energies</i> , 2016 , 9, 808	3.1	60
58	Mortar crack repair using microbial induced calcite precipitation method. <i>Cement and Concrete Composites</i> , 2017 , 83, 209-221	8.6	58
57	A novel approach to improve poly- γ -glutamic acid production by NADPH Regeneration in <i>Bacillus licheniformis</i> WX-02. <i>Scientific Reports</i> , 2017 , 7, 43404	4.9	55
56	Evaluating algal growth performance and water use efficiency of pilot-scale revolving algal biofilm (RAB) culture systems. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2040-50	4.9	54
55	Improvement of lichenysin production in <i>Bacillus licheniformis</i> by replacement of native promoter of lichenysin biosynthesis operon and medium optimization. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 8895-903	5.7	51
54	Utilization of acetic acid-rich pyrolytic bio-oil by microalga <i>Chlamydomonas reinhardtii</i> : reducing bio-oil toxicity and enhancing algal toxicity tolerance. <i>Bioresource Technology</i> , 2013 , 133, 500-6	11	48
53	Kinetic modeling of enzymatic hydrolysis of cellulose in differently pretreated fibers from dairy manure. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 441-51	4.9	47
52	Evaluation of revolving algae biofilm reactors for nutrients and metals removal from sludge thickening supernatant in a municipal wastewater treatment facility. <i>Water Research</i> , 2018 , 143, 467-478	12.5	47
51	Effective recovery of poly- γ -hydroxybutyrate (PHB) biopolymer from <i>Cupriavidus necator</i> using a novel and environmentally friendly solvent system. <i>Biotechnology Progress</i> , 2016 , 32, 678-85	2.8	41
50	Bioactive compounds and biological functions of sea cucumbers as potential functional foods. <i>Journal of Functional Foods</i> , 2018 , 49, 73-84	5.1	39
49	Use of dry-milling derived thin stillage for producing eicosapentaenoic acid (EPA) by the fungus <i>Pythium irregulare</i> . <i>Bioresource Technology</i> , 2012 , 111, 404-9	11	38
48	Treatment of acidic sulfate-containing wastewater using revolving algae biofilm reactors: Sulfur removal performance and microbial community characterization. <i>Bioresource Technology</i> , 2018 , 264, 24-34	11	38

47	Enhanced production of poly- γ -glutamic acid by improving ATP supply in metabolically engineered <i>Bacillus licheniformis</i> . <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2541-2553	4.9	38
46	Production of biorenewable styrene: utilization of biomass-derived sugars and insights into toxicity. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 595-604	4.2	36
45	Evaluation of the Biogenic Amines Formation and Degradation Abilities of From Chinese Bacon. <i>Frontiers in Microbiology</i> , 2018 , 9, 1015	5.7	32
44	Composting clam processing wastes in a laboratory- and pilot-scale in-vessel system. <i>Waste Management</i> , 2009 , 29, 180-5	8.6	32
43	Anaerobic digestion of aqueous phase from pyrolysis of biomass: Reducing toxicity and improving microbial tolerance. <i>Bioresource Technology</i> , 2019 , 292, 121976	11	29
42	Use of wavelength-selective optical light filters for enhanced microalgal growth in different algal cultivation systems. <i>Bioresource Technology</i> , 2015 , 179, 473-482	11	25
41	Deciphering <i>Clostridium</i> metabolism and its responses to bioreactor mass transfer during syngas fermentation. <i>Scientific Reports</i> , 2017 , 7, 10090	4.9	22
40	Evaluation of the Biogenic Amines and Microbial Contribution in Traditional Chinese Sausages. <i>Frontiers in Microbiology</i> , 2019 , 10, 872	5.7	21
39	High-level production of short branched-chain fatty acids from waste materials by genetically modified <i>Bacillus licheniformis</i> . <i>Bioresource Technology</i> , 2019 , 271, 325-331	11	21
38	An experimental investigation on the multiphase flows and turbulent mixing in a flat-panel photobioreactor for algae cultivation. <i>Journal of Applied Phycology</i> , 2014 , 26, 2097-2107	3.2	20
37	Biochar as an Additive in Anaerobic Digestion of Municipal Sludge: Biochar Properties and Their Effects on the Digestion Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6391-6401	8.3	20
36	Removal of pharmaceutical and personal care products (PPCPs) from waterbody using a revolving algal biofilm (RAB) reactor. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124284	12.8	20
35	Use of microalgae for mitigating ammonia and CO ₂ emissions from animal production operations Evaluation of gas removal efficiency and algal biomass composition. <i>Algal Research</i> , 2015 , 11, 204-210	5	19
34	Biogenic amines analysis and microbial contribution in traditional fermented food of Douchi. <i>Scientific Reports</i> , 2018 , 8, 12567	4.9	19
33	Enhancement of acetoin production from <i>Bacillus licheniformis</i> by 2,3-butanediol conversion strategy: Metabolic engineering and fermentation control. <i>Process Biochemistry</i> , 2017 , 57, 35-42	4.8	18
32	Alkaline treatment for detoxification of acetic acid-rich pyrolytic bio-oil for microalgae fermentation: Effects of alkaline species and the detoxification mechanisms. <i>Biomass and Bioenergy</i> , 2015 , 80, 203-212	5.3	18
31	Microalgae fermentation of acetic acid-rich pyrolytic bio-oil: Reducing bio-oil toxicity by alkali treatment. <i>Environmental Progress and Sustainable Energy</i> , 2013 , 32, 955-961	2.5	18
30	A novel bulk-gas-to-atomized-liquid reactor for enhanced mass transfer efficiency and its application to syngas fermentation. <i>Chemical Engineering Journal</i> , 2019 , 370, 60-70	14.7	17

29	Nonfeed application of rendered animal proteins for microbial production of eicosapentaenoic acid by the fungus <i>Pythium irregulare</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 11990-6	5.7	17
28	Rewiring glycerol metabolism for enhanced production of poly- γ -glutamic acid in. <i>Biotechnology for Biofuels</i> , 2018 , 11, 306	7.8	17
27	Damage to the microbial cell membrane during pyrolytic sugar utilization and strategies for increasing resistance. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 1279-1292	4.2	14
26	Improvement of glycerol catabolism in <i>Bacillus licheniformis</i> for production of poly- γ -glutamic acid. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 7155-7164	5.7	14
25	Identification of Soil Microbes Capable of Utilizing Cellobiosan. <i>PLoS ONE</i> , 2016 , 11, e0149336	3.7	14
24	Removal of total dissolved solids from wastewater using a revolving algal biofilm reactor. <i>Water Environment Research</i> , 2020 , 92, 766-778	2.8	13
23	Promoting microbial utilization of phenolic substrates from bio-oil. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 1531-1545	4.2	12
22	A laboratory study of microalgae-based ammonia gas mitigation with potential application for improving air quality in animal production operations. <i>Journal of the Air and Waste Management Association</i> , 2014 , 64, 330-9	2.4	12
21	Solid-State Anaerobic Digestion for Waste Management and Biogas Production. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2019 , 169, 147-168	1.7	11
20	Comparison of product distribution, content and fermentability of biomass in a hybrid thermochemical/biological processing platform. <i>Biomass and Bioenergy</i> , 2019 , 120, 107-116	5.3	11
19	Utilization of pyrolytic substrate by microalga <i>Chlamydomonas reinhardtii</i> : cell membrane property change as a response of the substrate toxicity. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 4241-57	5.7	10
18	Metabolic engineering of for enhanced production of -adenosylmethionine by coupling of an engineered -adenosylmethionine pathway and the tricarboxylic acid cycle. <i>Biotechnology for Biofuels</i> , 2019 , 12, 211	7.8	8
17	Identification and Quantification of Triterpenoids in Lingzhi or Reishi Medicinal Mushroom, <i>Ganoderma lucidum</i> (Agaricomycetes), with HPLC-MS/MS Methods. <i>International Journal of Medicinal Mushrooms</i> , 2018 , 20, 919-934	1.3	8
16	A lignin-first strategy to recover hydroxycinnamic acids and improve cellulosic ethanol production from corn stover. <i>Biomass and Bioenergy</i> , 2020 , 138, 105579	5.3	7
15	The non-nutritional performance characteristics of peptones made from rendered protein. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010 , 37, 95-102	4.2	7
14	The pharmacokinetics and tissue distribution of coumaroylspinosin in rat: A novel flavone C-glycoside derived from <i>Zizyphi Spinosi Semen</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1046, 18-25	3.2	6
13	Ultrasonic-assisted extraction of squalene and vitamin E based oil from <i>Zizyphi Spinosae Semen</i> and evaluation of its antioxidant activity. <i>Journal of Food Measurement and Characterization</i> , 2018 , 12, 2844-2854	2.8	6
12	Efficient synthesis of 2-phenylethanol from L-phenylalanine by engineered <i>Bacillus licheniformis</i> using molasses as carbon source. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 7507-7520	5.7	5

11	Corn distillers dried grains with solubles: Production, properties, and potential uses. <i>Cereal Chemistry</i> , 2021 , 98, 999-1019	2.4	5
10	Comprehensive determination of nine polyphenols in <i>Polygoni Avicularis Herba</i> with a new HPLC/DAD method and their correlation with the antioxidant activities. <i>Journal of Food Measurement and Characterization</i> , 2018 , 12, 1593-1600	2.8	4
9	The safety assessment of <i>Pythium irregulare</i> as a producer of biomass and eicosapentaenoic acid for use in dietary supplements and food ingredients. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 7579-85	5.7	4
8	A new HPLC/MS/MS method for investigating degradation kinetics of 6?-feruloylspinosin and identifying its metabolites by rat intestinal bacterial flora in vitro. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2016 , 39, 724-729	1.3	4
7	Removing high concentration of nickel (II) ions from synthetic wastewater by an indigenous microalgae consortium with a Revolving Algal Biofilm (RAB) system. <i>Algal Research</i> , 2021 , 59, 102464	5	3
6	Biosynthesis of a Novel Bioactive Metabolite of Spermidine from : Gene Mining, Sequence Analysis, and Combined Expression. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 267-274	5.7	2
5	Evaluation of the Performance of a Revolving Algae Biofilm System for Recovering Nitrogen and Phosphorus from Municipal Wastewater. <i>Proceedings of the Water Environment Federation</i> , 2016 , 2016, 2988-3000		2
4	Effects of light intensity on the production of phycoerythrin and polyunsaturated fatty acid by microalga <i>Rhodomonas salina</i> . <i>Algal Research</i> , 2021 , 58, 102397	5	2
3	Hybrid Processing 2019 , 307-336		1
2	Microalgae-based wastewater treatment and utilization of microalgae biomass 2021 , 6, 165-165		0
1	Techno-economic and environmental impact assessment of using corn stover biochar for manure derived renewable natural gas production. <i>Applied Energy</i> , 2022 , 321, 119376	10.7	0