

# Jo-Shu Chang

## List of Publications by Year in descending order

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Version: 2024-02-01

557  
papers

44,113  
citations

1531

109  
h-index

5244

171  
g-index

560  
all docs

560  
docs citations

560  
times ranked

27595  
citing authors

#	ARTICLE	IF	CITATIONS
1	How does the Internet of Things (IoT) help in microalgae biorefinery?. <i>Biotechnology Advances</i> , 2022, 54, 107819.	6.0	45
2	Fermentative lactic acid production from seaweed hydrolysate using <i>Lactobacillus</i> sp. And <i>Weissella</i> sp. <i>Bioresource Technology</i> , 2022, 344, 126166.	4.8	27
3	Recent advances and future directions on the valorization of spent mushroom substrate (SMS): A review. <i>Bioresource Technology</i> , 2022, 344, 126157.	4.8	64
4	High-level production and extraction of C-phycoerythrin from cyanobacteria <i>Synechococcus</i> sp. PCC7002 for antioxidation, antibacterial and lead adsorption. <i>Environmental Research</i> , 2022, 206, 112283.	3.7	11
5	Biohydrogen production from microalgae for environmental sustainability. <i>Chemosphere</i> , 2022, 291, 132717.	4.2	81
6	Smart sustainable biorefineries for lignocellulosic biomass. <i>Bioresource Technology</i> , 2022, 344, 126215.	4.8	47
7	Enhanced biodegradation of chlortetracycline via a microalgae-bacteria consortium. <i>Bioresource Technology</i> , 2022, 343, 126149.	4.8	42
8	Recent advances in lutein production from microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111795.	8.2	73
9	Production of biosurfactants from agro-industrial waste and waste cooking oil in a circular bioeconomy: An overview. <i>Bioresource Technology</i> , 2022, 343, 126059.	4.8	82
10	Producing fucoxanthin from algae – Recent advances in cultivation strategies and downstream processing. <i>Bioresource Technology</i> , 2022, 344, 126170.	4.8	39
11	Renewable biohydrogen production from straw biomass – Recent advances in pretreatment/hydrolysis technologies and future development. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37359-37373.	3.8	12
12	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111852.	8.2	107
13	A comprehensive review on lignocellulosic biomass biorefinery for sustainable biofuel production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1481-1498.	3.8	75
14	Integrating anaerobic digestion and microalgae cultivation for dairy wastewater treatment and potential biochemicals production from the harvested microalgal biomass. <i>Chemosphere</i> , 2022, 291, 133057.	4.2	32
15	Metabolic Cascade for Remediation of Plastic Waste: a Case Study on Microplastic Degradation. <i>Current Pollution Reports</i> , 2022, 8, 30-50.	3.1	18
16	Integrating anaerobic digestion with bioelectrochemical system for performance enhancement: A mini review. <i>Bioresource Technology</i> , 2022, 345, 126519.	4.8	28
17	Catalytic microwave torrefaction of microalga <i>Chlorella vulgaris</i> FSP-E with magnesium oxide optimized via taguchi approach: A thermo-energetic analysis. <i>Chemosphere</i> , 2022, 290, 133374.	4.2	7
18	Circular bioeconomy approaches for sustainability and carbon mitigation in microalgal biorefinery. , 2022, , 557-598.		4

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19	The impact of the surfactant type on physicochemical properties, encapsulation, and in vitro biocompatibility of coconut oil nanoemulsions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 137, 104217.	2.7	7
20	Recent advances in algal biorefinery. <i>Bioresource Technology</i> , 2022, 347, 126734.	4.8	4
21	Recent advances in lignocellulosic biomass refinery. <i>Bioresource Technology</i> , 2022, 347, 126735.	4.8	7
22	Optimization and modeling of carbohydrate production in microalgae for use as feedstock in bioethanol fermentation. <i>International Journal of Energy Research</i> , 2022, 46, 19300-19312.	2.2	4
23	Integration of Internet-of-Things as sustainable smart farming technology for the rearing of black soldier fly to mitigate food waste. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 137, 104235.	2.7	20
24	Efficient fucoidan extraction and purification from <i>Sargassum cristaefolium</i> and preclinical dermal biological activity assessments of the purified fucoidans. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 137, 104294.	2.7	11
25	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater. <i>Bioengineered</i> , 2022, 13, 8115-8134.	1.4	23
26	Influence of Mo and Fe on Photosynthetic and Nitrogenase Activities of Nitrogen-Fixing Cyanobacteria under Nitrogen Starvation. <i>Cells</i> , 2022, 11, 904.	1.8	19
27	Immobilization of <i>Chlorella sorokiniana</i> AK-1 in bacterial cellulose by co-culture and its application in wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 137, 104286.	2.7	8
28	<i>Haematococcus pluvialis</i> : A potential feedstock for multiple-product biorefining. <i>Journal of Cleaner Production</i> , 2022, 344, 131103.	4.6	28
29	Sustainable strategies for combating hydrocarbon pollution: Special emphasis on mobil oil bioremediation. <i>Science of the Total Environment</i> , 2022, 832, 155083.	3.9	16
30	Polyhydroxybutyrate (PHB) production from crude glycerol by genetic engineering of <i>Rhodotorula glutinis</i> . <i>Bioresource Technology Reports</i> , 2022, 18, 101048.	1.5	6
31	Role of nitrogen transport for efficient energy conversion potential in low carbon and high nitrogen/phosphorus wastewater by microalgal-bacterial system. <i>Bioresource Technology</i> , 2022, 351, 127019.	4.8	8
32	Bioremediation of sulfonamides by a microalgae-bacteria consortium – Analysis of pollutants removal efficiency, cellular composition, and bacterial community. <i>Bioresource Technology</i> , 2022, 351, 126964.	4.8	32
33	Hair growth-promoting effects of <i>Sargassum glaucescens</i> oligosaccharides extracts. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 134, 104307.	2.7	9
34	Bioethanol production from <i>Chlorella vulgaris</i> ESP-31 grown in unsterilized swine wastewater. <i>Bioresource Technology</i> , 2022, 352, 127086.	4.8	22
35	Lutein production by microalgae using corn starch wastewater pretreated with rapid enzymatic hydrolysis. <i>Bioresource Technology</i> , 2022, 352, 126940.	4.8	12
36	Effect of pH on biomass production and carbohydrate accumulation of <i>Chlorella vulgaris</i> JSC-6 under autotrophic, mixotrophic, and photoheterotrophic cultivation. <i>Bioresource Technology</i> , 2022, 351, 127021.	4.8	25

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37	Synthesis of a novel solid mediator Z-scheme heterojunction photocatalysis CuFe <sub>2</sub> O <sub>4</sub> /Cu/UiO-66-NH <sub>2</sub> for oxidation of dye in water. <i>Chemosphere</i> , 2022, 296, 134080.	4.2	19
38	Advanced oxidation process based on hydroxyl and sulfate radicals to degrade refractory organic pollutants in landfill leachate. <i>Chemosphere</i> , 2022, 297, 134214.	4.2	56
39	Enhanced chlortetracycline removal by iron oxide modified spent coffee grounds biochar and persulfate system. <i>Chemosphere</i> , 2022, 301, 134654.	4.2	9
40	Valorization of wastewater through microalgae as a prospect for generation of biofuel and high-value products. <i>Journal of Cleaner Production</i> , 2022, 362, 132114.	4.6	31
41	Template-based textural modifications of polymeric graphitic carbon nitrides towards waste water treatment. <i>Chemosphere</i> , 2022, 302, 134792.	4.2	13
42	Enhanced sulfonamides removal via microalgae-bacteria consortium via co-substrate supplementation. <i>Bioresource Technology</i> , 2022, 358, 127431.	4.8	15
43	Valorization of fruit wastes for circular bioeconomy: Current advances, challenges, and opportunities. <i>Bioresource Technology</i> , 2022, 359, 127459.	4.8	38
44	Large-scale production of Spirulina-based proteins and c-phycoyanin: A biorefinery approach. <i>Biochemical Engineering Journal</i> , 2022, 185, 108541.	1.8	42
45	Emerging prospects of microbial production of omega fatty acids: Recent updates. <i>Bioresource Technology</i> , 2022, 360, 127534.	4.8	26
46	Integrated role of algae in the closed-loop circular economy of anaerobic digestion. <i>Bioresource Technology</i> , 2022, 360, 127618.	4.8	11
47	Microalgae-based wastewater treatment “Microalgae-bacteria consortia, multi-omics approaches and algal stress response. <i>Science of the Total Environment</i> , 2022, 845, 157110.	3.9	54
48	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. <i>Environmental Pollution</i> , 2021, 272, 115986.	3.7	165
49	Landfill leachate wastewater treatment to facilitate resource recovery by a coagulation-flocculation process via hydrogen bond. <i>Chemosphere</i> , 2021, 262, 127829.	4.2	50
50	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. <i>Journal of Hazardous Materials</i> , 2021, 402, 123431.	6.5	151
51	Isolation and purification of brown algae fucoidan from <i>Sargassum siliculosum</i> and the analysis of anti-lipogenesis activity. <i>Biochemical Engineering Journal</i> , 2021, 165, 107798.	1.8	32
52	Extraction of polysaccharides from edible mushrooms: Emerging technologies and recent advances. <i>Carbohydrate Polymers</i> , 2021, 251, 117006.	5.1	127
53	Bio-based rhamnolipids production and recovery from waste streams: Status and perspectives. <i>Bioresource Technology</i> , 2021, 319, 124213.	4.8	52
54	Thermal-Fenton mechanism with sonoprocessing for rapid non-catalytic transesterification of microalgal to biofuel production. <i>Chemical Engineering Journal</i> , 2021, 408, 127264.	6.6	17

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55	Biohydrogen production from microalgae—Major bottlenecks and future research perspectives. <i>Biotechnology Journal</i> , 2021, 16, e2000124.	1.8	64
56	Effect of wet torrefaction on pyrolysis kinetics and conversion of microalgae carbohydrates, proteins, and lipids. <i>Energy Conversion and Management</i> , 2021, 227, 113609.	4.4	31
57	Engineering cyanobacteria with enhanced growth in simulated flue gases for high-yield bioethanol production. <i>Biochemical Engineering Journal</i> , 2021, 165, 107823.	1.8	16
58	Microalgae cultivation in wastewater and potential processing strategies using solvent and membrane separation technologies. <i>Journal of Water Process Engineering</i> , 2021, 39, 101701.	2.6	45
59	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021, 82, 100887.	15.8	429
60	Circular Bioeconomy: An Introduction. , 2021, , 3-23.		3
61	Algae-derived hydrocolloids in foods: applications and health-related issues. <i>Bioengineered</i> , 2021, 12, 3787-3801.	1.4	29
62	Molecular mechanism of arachidonic acid biosynthesis in <i>Porphyridium purpureum</i> promoted by nitrogen limitation. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1491-1499.	1.7	3
63	Prospects and development of algal-bacterial biotechnology in environmental management and protection. <i>Biotechnology Advances</i> , 2021, 47, 107684.	6.0	83
64	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , 2021, 14, 87.	6.2	176
65	Semi-batch cultivation of <i>Chlorella sorokiniana</i> AK-1 with dual carriers for the effective treatment of full strength piggy wastewater treatment. <i>Bioresource Technology</i> , 2021, 326, 124773.	4.8	40
66	Enhancing carbohydrate repartitioning into lipid and carotenoid by disruption of microalgae starch debranching enzyme. <i>Communications Biology</i> , 2021, 4, 450.	2.0	30
67	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , 2021, 19, 2891-2904.	8.3	87
68	Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production. <i>Sustainability</i> , 2021, 13, 4246.	1.6	9
69	Microalgae: The Future Supply House of Biohydrogen and Biogas. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	30
70	The Role of Biochar in Regulating the Carbon, Phosphorus, and Nitrogen Cycles Exemplified by Soil Systems. <i>Sustainability</i> , 2021, 13, 5612.	1.6	39
71	Microalgae as sustainable food and feed sources for animals and humans — Biotechnological and environmental aspects. <i>Chemosphere</i> , 2021, 271, 129800.	4.2	136
72	Converting waste molasses liquor into biohydrogen via dark fermentation using a continuous bioreactor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16546-16554.	3.8	16

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73	Energy, exergy, and environmental analyses of renewable hydrogen production through plasma gasification of microalgal biomass. <i>Energy</i> , 2021, 223, 120025.	4.5	35
74	A critical review on various feedstocks as sustainable substrates for biosurfactants production: a way towards cleaner production. <i>Microbial Cell Factories</i> , 2021, 20, 120.	1.9	124
75	Comparative life cycle assessment and economic analysis of methanol/hydrogen production processes for fuel cell vehicles. <i>Journal of Cleaner Production</i> , 2021, 300, 126959.	4.6	25
76	A multi-objective hybrid machine learning approach-based optimization for enhanced biomass and bioactive phycobiliproteins production in <i>Nostoc</i> sp. CCC-403. <i>Bioresource Technology</i> , 2021, 329, 124908.	4.8	33
77	Recent Advances in Carbon Dioxide Conversion: A Circular Bioeconomy Perspective. <i>Sustainability</i> , 2021, 13, 6962.	1.6	2
78	Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy. <i>Trends in Plant Science</i> , 2021, 26, 729-740.	4.3	52
79	Microbial cell factories for the production of polyhydroxyalkanoates. <i>Essays in Biochemistry</i> , 2021, 65, 337-353.	2.1	15
80	Lutein production with <i>Chlorella sorokiniana</i> MB-1-M12 using novel two-stage cultivation strategies – metabolic analysis and process improvement. <i>Bioresource Technology</i> , 2021, 334, 125200.	4.8	39
81	Liquid triphasic systems as sustainable downstream processing of <i>Chlorella</i> sp. biorefinery for potential biofuels and feed production. <i>Bioresource Technology</i> , 2021, 333, 125075.	4.8	24
82	Whole-cell biocatalyst for cadaverine production using stable, constitutive and high expression of lysine decarboxylase in recombinant <i>Escherichia coli</i> W3110. <i>Enzyme and Microbial Technology</i> , 2021, 148, 109811.	1.6	20
83	Supercritical water gasification (SCWG) as a potential tool for the valorization of phycoremediation-derived waste algal biomass for biofuel generation. <i>Journal of Hazardous Materials</i> , 2021, 418, 126278.	6.5	36
84	Succinic acid fermentation with immobilized <i>Actinobacillus succinogenes</i> using hydrolysate of carbohydrate-rich microalgal biomass. <i>Bioresource Technology</i> , 2021, 342, 126014.	4.8	10
85	Independent parallel pyrolysis kinetics of extracted proteins and lipids as well as model carbohydrates in microalgae. <i>Applied Energy</i> , 2021, 300, 117372.	5.1	28
86	Sustainable aquaculture and animal feed from microalgae – Nutritive value and techno-functional components. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111549.	8.2	79
87	Emerging algal nanotechnology for high-value compounds: A direction to future food production. <i>Trends in Food Science and Technology</i> , 2021, 116, 290-302.	7.8	33
88	Boosting photo-biochemical conversion and carbon dioxide bio-fixation of <i>Chlorella vulgaris</i> in an optimized photobioreactor with airfoil-shaped deflectors. <i>Bioresource Technology</i> , 2021, 337, 125355.	4.8	24
89	Effect of molecular mass and sulfate content of fucoidan from <i>Sargassum siliquosum</i> on antioxidant, anti-lipogenesis, and anti-inflammatory activity. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 359-364.	1.1	28
90	Pollution prevention and waste phycoremediation by algal-based wastewater treatment technologies: The applications of high-rate algal ponds (HRAPs) and algal turf scrubber (ATS). <i>Journal of Environmental Management</i> , 2021, 296, 113193.	3.8	31

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91	Novel application of microalgae platform for biodesalination process: A review. <i>Bioresource Technology</i> , 2021, 337, 125343.	4.8	16
92	Current advances and future challenges of AIoT applications in particulate matters (PM) monitoring and control. <i>Journal of Hazardous Materials</i> , 2021, 419, 126442.	6.5	27
93	Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects. <i>Bioresource Technology</i> , 2021, 342, 126021.	4.8	68
94	A review on integrated approaches for municipal solid waste for environmental and economical relevance: Monitoring tools, technologies, and strategic innovations. <i>Bioresource Technology</i> , 2021, 342, 125982.	4.8	68
95	Basic oxygen furnace slag as a support material for the cultivation of indigenous marine microalgae. <i>Bioresource Technology</i> , 2021, 342, 125968.	4.8	3
96	Continuous production of algicidal compounds against <i>Akashiwo sanguinea</i> via a <i>Vibrio</i> sp. co-culture. <i>Bioresource Technology</i> , 2020, 295, 122246.	4.8	26
97	Enhanced biohydrogen production from date seeds by <i>Clostridium thermocellum</i> ATCC 27405. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22271-22280.	3.8	56
98	Examination of indigenous microalgal species for maximal protein synthesis. <i>Biochemical Engineering Journal</i> , 2020, 154, 107425.	1.8	13
99	Anaerobic granulation: A review of granulation hypotheses, bioreactor designs and emerging green applications. <i>Bioresource Technology</i> , 2020, 300, 122751.	4.8	72
100	An evaluation of thermal characteristics of bacterium <i>Actinobacillus succinogenes</i> for energy use and circular bioeconomy. <i>Bioresource Technology</i> , 2020, 301, 122774.	4.8	11
101	Exploring Dual-Substrate Cultivation Strategy of 1,3-Propanediol Production Using <i>Klebsiella pneumoniae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 346-359.	1.4	10
102	Adding carbon-based materials on anaerobic digestion performance: A mini-review. <i>Bioresource Technology</i> , 2020, 300, 122696.	4.8	43
103	Enhanced production of microalgal lipids using a heterotrophic marine microalga <i>Thraustochytrium</i> sp. BM2. <i>Biochemical Engineering Journal</i> , 2020, 154, 107429.	1.8	30
104	A molecular dynamics study on the CO <sub>2</sub> permeability of microalgae lipid membrane. <i>Journal of Applied Phycology</i> , 2020, 32, 291-297.	1.5	1
105	Microwave-assisted wet torrefaction of microalgae under various acids for coproduction of biochar and sugar. <i>Journal of Cleaner Production</i> , 2020, 253, 119944.	4.6	54
106	Metabolic engineering probiotic yeast produces 3S, 3â€²S-astaxanthin to inhibit B16F10 metastasis. <i>Food and Chemical Toxicology</i> , 2020, 135, 110993.	1.8	30
107	Bioformulation of biochar as a potential inoculant carrier for sustainable agriculture. <i>Environmental Technology and Innovation</i> , 2020, 20, 101168.	3.0	64
108	Diverse Enzymes With Industrial Applications in Four <i>Thraustochytrid</i> Genera. <i>Frontiers in Microbiology</i> , 2020, 11, 573907.	1.5	5

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109	Circular bioeconomy approaches for sustainability. <i>Bioresource Technology</i> , 2020, 318, 124084.	4.8	25
110	Immobilization of Hg(II) on high-salinity <i>Spirulina</i> residue-induced biochar from aqueous solutions: Sorption and transformation mechanisms by the dual-mode isotherms. <i>Environmental Pollution</i> , 2020, 265, 115087.	3.7	23
111	Biobutanol production from lignocellulosic biomass using immobilized <i>Clostridium acetobutylicum</i> . <i>Applied Energy</i> , 2020, 277, 115531.	5.1	49
112	Pyrolysis synergy of municipal solid waste (MSW): A review. <i>Bioresource Technology</i> , 2020, 318, 123912.	4.8	55
113	Effects of dry and wet torrefaction pretreatment on microalgae pyrolysis analyzed by TG-FTIR and double-shot Py-GC/MS. <i>Energy</i> , 2020, 210, 118579.	4.5	34
114	Biofuel from Microalgae: Sustainable Pathways. <i>Sustainability</i> , 2020, 12, 8009.	1.6	49
115	Genome sequencing, assembly, and annotation of the self-flocculating microalga <i>Scenedesmus obliquus</i> AS-6-11. <i>BMC Genomics</i> , 2020, 21, 743.	1.2	15
116	Microalgae with artificial intelligence: A digitalized perspective on genetics, systems and products. <i>Biotechnology Advances</i> , 2020, 44, 107631.	6.0	55
117	A sulfated/chlorinated Sr-Fe composite oxide as a novel solid and reusable superacid catalyst for oleic acid esterification. <i>New Journal of Chemistry</i> , 2020, 44, 13669-13684.	1.4	9
118	Genetic engineering of microalgae for enhanced biorefinery capabilities. <i>Biotechnology Advances</i> , 2020, 43, 107554.	6.0	117
119	Lactic Acid Production from Renewable Feedstocks Using Poly(vinyl alcohol)-Immobilized <i>Lactobacillus plantarum</i> 23. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17156-17164.	1.8	34
120	Machine learning-based energy consumption clustering and forecasting for mixed-use buildings. <i>International Journal of Energy Research</i> , 2020, 44, 9659-9673.	2.2	25
121	Optimal design of an integrated renewable-storage energy system in a mixed-use building. <i>International Journal of Energy Research</i> , 2020, 44, 9646-9658.	2.2	8
122	Efficient biotransformation of L-lysine into cadaverine by strengthening pyridoxal 5-phosphate-dependent proteins in <i>Escherichia coli</i> with cold shock treatment. <i>Biochemical Engineering Journal</i> , 2020, 161, 107659.	1.8	26
123	Using low carbon footprint high-pressure carbon dioxide in bioconversion of aspen branch waste for sustainable bioethanol production. <i>Bioresource Technology</i> , 2020, 313, 123675.	4.8	13
124	Kinetics and thermodynamics dataset of iron oxide reduction using torrefied microalgae for chemical looping combustion. <i>Data in Brief</i> , 2020, 29, 105261.	0.5	6
125	Biodiesel production from heterotrophic oleaginous microalga <i>Thraustochytrium</i> sp. BM2 with enhanced lipid accumulation using crude glycerol as alternative carbon source. <i>Bioresource Technology</i> , 2020, 306, 123113.	4.8	40
126	Production of microalgal biochar and reducing sugar using wet torrefaction with microwave-assisted heating and acid hydrolysis pretreatment. <i>Renewable Energy</i> , 2020, 156, 349-360.	4.3	59



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127	Bioethanol production from acid pretreated microalgal hydrolysate using microwave-assisted heating wet torrefaction. <i>Fuel</i> , 2020, 279, 118435.	3.4	55
128	Plasma gasification performances of various raw and torrefied biomass materials using different gasifying agents. <i>Bioresource Technology</i> , 2020, 314, 123740.	4.8	66
129	High-level l-lysine bioconversion into cadaverine with enhanced productivity using engineered <i>Escherichia coli</i> whole-cell biocatalyst. <i>Biochemical Engineering Journal</i> , 2020, 157, 107547.	1.8	20
130	Novel Renewable Double-Energy System for Activated Biochar Production and Thermoelectric Generation from Waste Heat. <i>Energy &amp; Fuels</i> , 2020, 34, 3383-3393.	2.5	14
131	Optimisation of biomass and lipid production of a tropical thraustochytrid <i>Aurantiochytrium</i> sp. UMACC-T023 in submerged-liquid fermentation for large-scale biodiesel production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 23, 101496.	1.5	15
132	Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective. <i>Bioresource Technology</i> , 2020, 302, 122817.	4.8	195
133	Bioremediation of heavy metals using microalgae: Recent advances and mechanisms. <i>Bioresource Technology</i> , 2020, 303, 122886.	4.8	458
134	Current application of electrical pre-treatment for enhanced microalgal biomolecules extraction. <i>Bioresource Technology</i> , 2020, 302, 122874.	4.8	26
135	Pretreatment of microalgal biomass for efficient biohydrogen production – Recent insights and future perspectives. <i>Bioresource Technology</i> , 2020, 302, 122871.	4.8	100
136	Unlocking the Secret of Bio-additive Components in Rubber Compounding in Processing Quality Nitrile Glove. <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 1-28.	1.4	12
137	Facilitating the enzymatic conversion of lysine to cadaverine in engineered <i>Escherichia coli</i> with metabolic regulation by genes deletion. <i>Biochemical Engineering Journal</i> , 2020, 156, 107514.	1.8	12
138	Kinetic modelling of heterotrophic microalgae culture in wastewater: Storage molecule generation and pollutants mitigation. <i>Biochemical Engineering Journal</i> , 2020, 157, 107523.	1.8	20
139	Cultivating <i>Chlorella sorokiniana</i> AK-1 with swine wastewater for simultaneous wastewater treatment and algal biomass production. <i>Bioresource Technology</i> , 2020, 302, 122814.	4.8	120
140	Application of computational fluid dynamics (CFD) on the raceway design for the cultivation of microalgae: a review. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 373-382.	1.4	14
141	Continuous cellulosic bioethanol co-fermentation by immobilized <i>Zymomonas mobilis</i> and suspended <i>Pichia stipitis</i> in a two-stage process. <i>Applied Energy</i> , 2020, 266, 114871.	5.1	55
142	Exploring fermentation strategies for enhanced lactic acid production with polyvinyl alcohol-immobilized <i>Lactobacillus plantarum</i> 23 using microalgae as feedstock. <i>Bioresource Technology</i> , 2020, 308, 123266.	4.8	46
143	Covalent organic framework EB-COF:Br as adsorbent for phosphorus (V) or arsenic (V) removal from nearly neutral waters. <i>Chemosphere</i> , 2020, 253, 126736.	4.2	34
144	Adsorption behavior of Cr(VI) by magnetically modified <i>Enteromorpha prolifera</i> based biochar and the toxicity analysis. <i>Journal of Hazardous Materials</i> , 2020, 395, 122658.	6.5	75

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145	Environmental life cycle comparisons of pig farming integrated with anaerobic digestion and algae-based wastewater treatment. <i>Journal of Environmental Management</i> , 2020, 264, 110512.	3.8	37
146	Microalgae-microbial fuel cell (mMFC): an integrated process for electricity generation, wastewater treatment, CO <sub>2</sub> sequestration and biomass production. <i>International Journal of Energy Research</i> , 2020, 44, 9254-9265.	2.2	26
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414	Biosorption of cadmium by CO <sub>2</sub> -fixing microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2012, 105, 74-80.	4.8	84



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417	High yield bio-butanol production by solvent-producing bacterial microflora. <i>Bioresource Technology</i> , 2012, 113, 58-64.	4.8	83
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420	Synergistic enhancement of glycogen production in <i>Arthrospira platensis</i> by optimization of light intensity and nitrate supply. <i>Bioresource Technology</i> , 2012, 108, 211-215.	4.8	114
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430	Biohydrogen production from lignocellulosic feedstock. <i>Bioresource Technology</i> , 2011, 102, 8514-8523.	4.8	182
431	Perspectives on cultivation strategies and photobioreactor designs for photo-fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8484-8492.	4.8	98
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