

Jo-Shu Chang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8841976/publications.pdf>

Version: 2024-02-01

557
papers

44,113
citations

1301

109
h-index

4548

171
g-index

560
all docs

560
docs citations

560
times ranked

24982
citing authors

#	ARTICLE	IF	CITATIONS
1	How does the Internet of Things (IoT) help in microalgae biorefinery?. <i>Biotechnology Advances</i> , 2022, 54, 107819.	11.7	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.	9.6	27
3	Recent advances and future directions on the valorization of spent mushroom substrate (SMS): A review. <i>Bioresource Technology</i> , 2022, 344, 126157.	9.6	64
4	High-level production and extraction of C-phycocyanin from cyanobacteria <i>Synechococcus</i> sp. PCC7002 for antioxidation, antibacterial and lead adsorption. <i>Environmental Research</i> , 2022, 206, 112283.	7.5	11
5	Biohydrogen production from microalgae for environmental sustainability. <i>Chemosphere</i> , 2022, 291, 132717.	8.2	81
6	Smart sustainable biorefineries for lignocellulosic biomass. <i>Bioresource Technology</i> , 2022, 344, 126215.	9.6	47
7	Enhanced biodegradation of chlortetracycline via a microalgae-bacteria consortium. <i>Bioresource Technology</i> , 2022, 343, 126149.	9.6	42
8	Recent advances in lutein production from microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111795.	16.4	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.	9.6	82
10	Producing fucoxanthin from algae – Recent advances in cultivation strategies and downstream processing. <i>Bioresource Technology</i> , 2022, 344, 126170.	9.6	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.	7.1	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.	16.4	107
13	A comprehensive review on lignocellulosic biomass biorefinery for sustainable biofuel production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1481-1498.	7.1	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.	8.2	32
15	Metabolic Cascade for Remediation of Plastic Waste: a Case Study on Microplastic Degradation. <i>Current Pollution Reports</i> , 2022, 8, 30-50.	6.6	18
16	Integrating anaerobic digestion with bioelectrochemical system for performance enhancement: A mini review. <i>Bioresource Technology</i> , 2022, 345, 126519.	9.6	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.	8.2	7
18	Circular bioeconomy approaches for sustainability and carbon mitigation in microalgal biorefinery. , 2022, , 557-598.		4

#	ARTICLE	IF	CITATIONS
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.	5.3	7
20	Recent advances in algal biorefinery. <i>Bioresource Technology</i> , 2022, 347, 126734.	9.6	4
21	Recent advances in lignocellulosic biomass refinery. <i>Bioresource Technology</i> , 2022, 347, 126735.	9.6	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.	4.5	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.	5.3	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.	5.3	11
25	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater. <i>Bioengineered</i> , 2022, 13, 8115-8134.	3.2	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.	4.1	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.	5.3	8
28	<i>Haematococcus pluvialis</i> : A potential feedstock for multiple-product biorefining. <i>Journal of Cleaner Production</i> , 2022, 344, 131103.	9.3	28
29	Sustainable strategies for combating hydrocarbon pollution: Special emphasis on mobil oil bioremediation. <i>Science of the Total Environment</i> , 2022, 832, 155083.	8.0	16
30	Polyhydroxybutyrate (PHB) production from crude glycerol by genetic engineering of <i>Rhodotorula glutinis</i> . <i>Bioresource Technology Reports</i> , 2022, 18, 101048.	2.7	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.	9.6	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.	9.6	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.	5.3	9
34	Bioethanol production from <i>Chlorella vulgaris</i> ESP-31 grown in unsterilized swine wastewater. <i>Bioresource Technology</i> , 2022, 352, 127086.	9.6	22
35	Lutein production by microalgae using corn starch wastewater pretreated with rapid enzymatic hydrolysis. <i>Bioresource Technology</i> , 2022, 352, 126940.	9.6	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.	9.6	25

#	ARTICLE	IF	CITATIONS
37	Synthesis of a novel solid mediator Z-scheme heterojunction photocatalysis CuFe ₂ O ₄ /Cu/UiO-66-NH ₂ for oxidation of dye in water. Chemosphere, 2022, 296, 134080.	8.2	19
38	Advanced oxidation process based on hydroxyl and sulfate radicals to degrade refractory organic pollutants in landfill leachate. Chemosphere, 2022, 297, 134214.	8.2	56
39	Enhanced chlortetracycline removal by iron oxide modified spent coffee grounds biochar and persulfate system. Chemosphere, 2022, 301, 134654.	8.2	9
40	Valorization of wastewater through microalgae as a prospect for generation of biofuel and high-value products. Journal of Cleaner Production, 2022, 362, 132114.	9.3	31
41	Template-based textural modifications of polymeric graphitic carbon nitrides towards waste water treatment. Chemosphere, 2022, 302, 134792.	8.2	13
42	Enhanced sulfonamides removal via microalgae-bacteria consortium via co-substrate supplementation. Bioresource Technology, 2022, 358, 127431.	9.6	15
43	Valorization of fruit wastes for circular bioeconomy: Current advances, challenges, and opportunities. Bioresource Technology, 2022, 359, 127459.	9.6	38
44	Large-scale production of Spirulina-based proteins and c-phycocyanin: A biorefinery approach. Biochemical Engineering Journal, 2022, 185, 108541.	3.6	42
45	Emerging prospects of microbial production of omega fatty acids: Recent updates. Bioresource Technology, 2022, 360, 127534.	9.6	26
46	Integrated role of algae in the closed-loop circular economy of anaerobic digestion. Bioresource Technology, 2022, 360, 127618.	9.6	11
47	Microalgae-based wastewater treatment “ Microalgae-bacteria consortia, multi-omics approaches and algal stress response. Science of the Total Environment, 2022, 845, 157110.	8.0	54
48	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. Environmental Pollution, 2021, 272, 115986.	7.5	165
49	Landfill leachate wastewater treatment to facilitate resource recovery by a coagulation-flocculation process via hydrogen bond. Chemosphere, 2021, 262, 127829.	8.2	50
50	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. Journal of Hazardous Materials, 2021, 402, 123431.	12.4	151
51	Isolation and purification of brown algae fucoidan from Sargassum siliculosum and the analysis of anti-lipogenesis activity. Biochemical Engineering Journal, 2021, 165, 107798.	3.6	32
52	Extraction of polysaccharides from edible mushrooms: Emerging technologies and recent advances. Carbohydrate Polymers, 2021, 251, 117006.	10.2	127
53	Bio-based rhamnolipids production and recovery from waste streams: Status and perspectives. Bioresource Technology, 2021, 319, 124213.	9.6	52
54	Thermal-Fenton mechanism with sonoprocessing for rapid non-catalytic transesterification of microalgal to biofuel production. Chemical Engineering Journal, 2021, 408, 127264.	12.7	17

#	ARTICLE	IF	CITATIONS
55	Biohydrogen production from microalgae”Major bottlenecks and future research perspectives. <i>Biotechnology Journal</i> , 2021, 16, e2000124.	3.5	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.	9.2	31
57	Engineering cyanobacteria with enhanced growth in simulated flue gases for high-yield bioethanol production. <i>Biochemical Engineering Journal</i> , 2021, 165, 107823.	3.6	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.	5.6	45
59	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021, 82, 100887.	31.2	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.	3.2	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.	3.4	3
63	Prospects and development of algal-bacterial biotechnology in environmental management and protection. <i>Biotechnology Advances</i> , 2021, 47, 107684.	11.7	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.	9.6	40
66	Enhancing carbohydrate repartitioning into lipid and carotenoid by disruption of microalgae starch debranching enzyme. <i>Communications Biology</i> , 2021, 4, 450.	4.4	30
67	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , 2021, 19, 2891-2904.	16.2	87
68	Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production. <i>Sustainability</i> , 2021, 13, 4246.	3.2	9
69	Microalgae: The Future Supply House of Biohydrogen and Biogas. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	30
70	The Role of Biochar in Regulating the Carbon, Phosphorus, and Nitrogen Cycles Exemplified by Soil Systems. <i>Sustainability</i> , 2021, 13, 5612.	3.2	39
71	Microalgae as sustainable food and feed sources for animals and humans “ Biotechnological and environmental aspects. <i>Chemosphere</i> , 2021, 271, 129800.	8.2	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.	7.1	16

#	ARTICLE	IF	CITATIONS
73	Energy, exergy, and environmental analyses of renewable hydrogen production through plasma gasification of microalgal biomass. <i>Energy</i> , 2021, 223, 120025.	8.8	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.	4.0	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.	9.3	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.	9.6	33
77	Recent Advances in Carbon Dioxide Conversion: A Circular Bioeconomy Perspective. <i>Sustainability</i> , 2021, 13, 6962.	3.2	2
78	Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy. <i>Trends in Plant Science</i> , 2021, 26, 729-740.	8.8	52
79	Microbial cell factories for the production of polyhydroxyalkanoates. <i>Essays in Biochemistry</i> , 2021, 65, 337-353.	4.7	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.	9.6	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.	9.6	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.	3.2	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.	12.4	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.	9.6	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.	10.1	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.	16.4	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.	15.1	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.	9.6	24
89	Effect of molecular mass and sulfate content of fucoidan from <i>Sargassum siliculosum</i> on antioxidant, anti-lipogenesis, and anti-inflammatory activity. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 359-364.	2.2	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.	7.8	31

#	ARTICLE	IF	CITATIONS
91	Novel application of microalgae platform for biodesalination process: A review. <i>Bioresource Technology</i> , 2021, 337, 125343.	9.6	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.	12.4	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.	9.6	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.	9.6	68
95	Basic oxygen furnace slag as a support material for the cultivation of indigenous marine microalgae. <i>Bioresource Technology</i> , 2021, 342, 125968.	9.6	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.	9.6	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.	7.1	56
98	Examination of indigenous microalgal species for maximal protein synthesis. <i>Biochemical Engineering Journal</i> , 2020, 154, 107425.	3.6	13
99	Anaerobic granulation: A review of granulation hypotheses, bioreactor designs and emerging green applications. <i>Bioresource Technology</i> , 2020, 300, 122751.	9.6	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.	9.6	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.	2.9	10
102	Adding carbon-based materials on anaerobic digestion performance: A mini-review. <i>Bioresource Technology</i> , 2020, 300, 122696.	9.6	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.	3.6	30
104	A molecular dynamics study on the CO ₂ permeability of microalgae lipid membrane. <i>Journal of Applied Phycology</i> , 2020, 32, 291-297.	2.8	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.	9.3	54
106	Metabolic engineering probiotic yeast produces 3S, 3-astaxanthin to inhibit B16F10 metastasis. <i>Food and Chemical Toxicology</i> , 2020, 135, 110993.	3.6	30
107	Bioformulation of biochar as a potential inoculant carrier for sustainable agriculture. <i>Environmental Technology and Innovation</i> , 2020, 20, 101168.	6.1	64
108	Diverse Enzymes With Industrial Applications in Four <i>Thraustochytrid</i> Genera. <i>Frontiers in Microbiology</i> , 2020, 11, 573907.	3.5	5

#	ARTICLE	IF	CITATIONS
109	Circular bioeconomy approaches for sustainability. <i>Bioresource Technology</i> , 2020, 318, 124084.	9.6	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.	7.5	23
111	Biobutanol production from lignocellulosic biomass using immobilized <i>Clostridium acetobutylicum</i> . <i>Applied Energy</i> , 2020, 277, 115531.	10.1	49
112	Pyrolysis synergy of municipal solid waste (MSW): A review. <i>Bioresource Technology</i> , 2020, 318, 123912.	9.6	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.	8.8	34
114	Biofuel from Microalgae: Sustainable Pathways. <i>Sustainability</i> , 2020, 12, 8009.	3.2	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.	2.8	15
116	Microalgae with artificial intelligence: A digitalized perspective on genetics, systems and products. <i>Biotechnology Advances</i> , 2020, 44, 107631.	11.7	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.	2.8	9
118	Genetic engineering of microalgae for enhanced biorefinery capabilities. <i>Biotechnology Advances</i> , 2020, 43, 107554.	11.7	117
119	Lactic Acid Production from Renewable Feedstocks Using Poly(vinyl alcohol)-Immobilized <i>Lactobacillus plantarum</i> 23. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17156-17164.	3.7	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.	4.5	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.	4.5	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.	3.6	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.	9.6	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.	1.0	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.	9.6	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.	8.9	59

#	ARTICLE	IF	CITATIONS
127	Bioethanol production from acid pretreated microalgal hydrolysate using microwave-assisted heating wet torrefaction. <i>Fuel</i> , 2020, 279, 118435.	6.4	55
128	Plasma gasification performances of various raw and torrefied biomass materials using different gasifying agents. <i>Bioresource Technology</i> , 2020, 314, 123740.	9.6	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.	3.6	20
130	Novel Renewable Double-Energy System for Activated Biochar Production and Thermoelectric Generation from Waste Heat. <i>Energy & Fuels</i> , 2020, 34, 3383-3393.	5.1	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.	3.1	15
132	Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective. <i>Bioresource Technology</i> , 2020, 302, 122817.	9.6	195
133	Bioremediation of heavy metals using microalgae: Recent advances and mechanisms. <i>Bioresource Technology</i> , 2020, 303, 122886.	9.6	458
134	Current application of electrical pre-treatment for enhanced microalgal biomolecules extraction. <i>Bioresource Technology</i> , 2020, 302, 122874.	9.6	26
135	Pretreatment of microalgal biomass for efficient biohydrogen production “Recent insights and future perspectives. <i>Bioresource Technology</i> , 2020, 302, 122871.	9.6	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.	2.9	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.	3.6	12
138	Kinetic modelling of heterotrophic microalgae culture in wastewater: Storage molecule generation and pollutants mitigation. <i>Biochemical Engineering Journal</i> , 2020, 157, 107523.	3.6	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.	9.6	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.	3.0	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.	10.1	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.	9.6	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.	8.2	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.	12.4	75

#	ARTICLE	IF	CITATIONS
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.	7.8	37
146	Microalgae-microbial fuel cell (<scp>mMFC</scp>): an integrated process for electricity generation, wastewater treatment,<scp>CO₂</scp>sequestration and biomass production. <i>International Journal of Energy Research</i> , 2020, 44, 9254-9265.	4.5	26
147	Dark fermentative hydrogen production using macroalgae (<i>Ulva</i> sp.) as the renewable feedstock. <i>Applied Energy</i> , 2020, 262, 114574.	10.1	42
148	Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production. <i>Bioresource Technology</i> , 2020, 312, 123572.	9.6	48
149	Conventional and emerging technologies for removal of antibiotics from wastewater. <i>Journal of Hazardous Materials</i> , 2020, 400, 122961.	12.4	358
150	Structure and Biological Activity Analysis of Fucoidan Isolated from <i>Sargassum siliculosum</i>. <i>ACS Omega</i> , 2020, 5, 32447-32455.	3.5	45
151	Integrated algal biorefineries from process systems engineering aspects: A review. <i>Bioresource Technology</i> , 2019, 291, 121939.	9.6	48
152	Biodiesel From Microalgae. , 2019, , 601-628.		8
153	A novel process for the mixotrophic production of lutein with <i>Chlorella sorokiniana</i> MB-1-M12 using aquaculture wastewater. <i>Bioresource Technology</i> , 2019, 290, 121786.	9.6	32
154	Integration of anaerobic digestion and microalgal cultivation for digestate bioremediation and biogas upgrading. <i>Bioresource Technology</i> , 2019, 290, 121804.	9.6	77
155	Enhancing production of lutein by a mixotrophic cultivation system using microalga <i>Scenedesmus obliquus</i> CWL-1. <i>Bioresource Technology</i> , 2019, 291, 121891.	9.6	32
156	Current advances in biological swine wastewater treatment using microalgae-based processes. <i>Bioresource Technology</i> , 2019, 289, 121718.	9.6	158
157	State of the art and challenges of biohydrogen from microalgae. <i>Bioresource Technology</i> , 2019, 289, 121747.	9.6	77
158	Recovery of gold from industrial wastewater by immobilized gold-binding proteins on porous silica carriers grafted with amino group. <i>Biochemical Engineering Journal</i> , 2019, 152, 107388.	3.6	5
159	Bio-processing of algal bio-refinery: a review on current advances and future perspectives. <i>Bioengineered</i> , 2019, 10, 574-592.	3.2	114
160	High-performance enzymatic biofuel cell based on three-dimensional graphene. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30367-30374.	7.1	25
161	Isolation and characterization of <i>Chlorella</i> sp. mutants with enhanced thermo- and CO ₂ tolerances for CO ₂ sequestration and utilization of flue gases. <i>Biotechnology for Biofuels</i> , 2019, 12, 251.	6.2	30
162	Liquid Biphasic Systems for Oil-Rich Algae Bioproducts Processing. <i>Sustainability</i> , 2019, 11, 4682.	3.2	13

#	ARTICLE	IF	CITATIONS
163	Iron oxide reduction by torrefied microalgae for CO ₂ capture and abatement in chemical-looping combustion. <i>Energy</i> , 2019, 186, 115903.	8.8	28
164	Investigation of direct biodiesel production from wet microalgae using definitive screening design. <i>Energy Procedia</i> , 2019, 158, 1149-1154.	1.8	14
165	Design of photobioreactors for algal cultivation. , 2019, , 225-256.		27
166	Investigation of reverse ionic diffusion in forward-osmosis-aided dewatering of microalgae: A molecular dynamics study. <i>Bioresource Technology</i> , 2019, 279, 181-188.	9.6	21
167	Towards protein production and application by using <i>Chlorella</i> species as circular economy. <i>Bioresource Technology</i> , 2019, 289, 121625.	9.6	32
168	Application of thermo-separating aqueous two-phase system in extractive bioconversion of polyhydroxyalkanoates by <i>Cupriavidus necator</i> H16. <i>Bioresource Technology</i> , 2019, 287, 121474.	9.6	23
169	New Prospects for Modified Algae in Heavy Metal Adsorption. <i>Trends in Biotechnology</i> , 2019, 37, 1255-1268.	9.3	235
170	Mechanism study of photo-induced gold nanoparticles formation by <i>Shewanella oneidensis</i> MR-1. <i>Scientific Reports</i> , 2019, 9, 7589.	3.3	15
171	Recent advances in algae biodiesel production: From upstream cultivation to downstream processing. <i>Bioresource Technology Reports</i> , 2019, 7, 100227.	2.7	69
172	Biogas Upgrading by Microalgae: Strategies and Future Perspectives. , 2019, , 347-395.		4
173	Non-catalytic in-situ (trans) esterification of lipids in wet microalgae <i>Chlorella vulgaris</i> under subcritical conditions for the synthesis of fatty acid methyl esters. <i>Applied Energy</i> , 2019, 248, 526-537.	10.1	35
174	Life cycle assessment of upgraded microalgae-to-biofuel chains. <i>Bioresource Technology</i> , 2019, 288, 121492.	9.6	34
175	Exploring the potency of integrating semi-batch operation into lipid yield performance of <i>Chlamydomonas</i> sp. Tai-03. <i>Bioresource Technology</i> , 2019, 285, 121331.	9.6	4
176	Phyto-fabrication of silver nanoparticles by <i>Acacia nilotica</i> leaves: Investigating their antineoplastic, free radical scavenging potential and application in H ₂ O ₂ sensing. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 99, 239-249.	5.3	57
177	Recent advances in hydrogen production by thermo-catalytic conversion of biomass. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14266-14278.	7.1	52
178	Light/dark cycling causes delayed lipid accumulation and increased photoperiod-based biomass yield by altering metabolic flux in oleaginous <i>Chlamydomonas</i> sp.. <i>Biotechnology for Biofuels</i> , 2019, 12, 39.	6.2	29
179	Recent insights into consolidated bioprocessing for lignocellulosic biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14362-14379.	7.1	66
180	Short-Term Temporal Metabolic Behavior in Halophilic Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002 after Salt Shock. <i>Metabolites</i> , 2019, 9, 297.	2.9	18

#	ARTICLE	IF	CITATIONS
181	Oxidative torrefaction of biomass nutshells: Evaluations of energy efficiency as well as biochar transportation and storage. <i>Applied Energy</i> , 2019, 235, 428-441.	10.1	93
182	Catalytic effects of potassium on biomass pyrolysis, combustion and torrefaction. <i>Applied Energy</i> , 2019, 235, 346-355.	10.1	170
183	Enhancing lutein production with mixotrophic cultivation of <i>Chlorella sorokiniana</i> MB-1-M12 using different bioprocess operation strategies. <i>Bioresource Technology</i> , 2019, 278, 17-25.	9.6	55
184	Singlet oxygen-dominated peroxydisulfate activation by sludge-derived biochar for sulfamethoxazole degradation through a nonradical oxidation pathway: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2019, 357, 589-599.	12.7	363
185	Development of <i>Aurantiochytrium limacinum</i> SR21 cultivation using salt-rich waste feedstock for docosahexaenoic acid production and application of natural colourant in food product. <i>Bioresource Technology</i> , 2019, 271, 30-36.	9.6	18
186	Biohydrogen Production From Renewable Biomass Resources. , 2019, , 247-277.		37
187	Waste to energy: the effects of <i>Pseudomonas</i> sp. on <i>Chlorella sorokiniana</i> biomass and lipid productions in palm oil mill effluent. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2037-2045.	4.1	39
188	Heterotrophic Microalgal Cultivation. <i>Green Energy and Technology</i> , 2018, , 117-160.	0.6	7
189	Biofuels from Microbial Lipids. <i>Green Energy and Technology</i> , 2018, , 359-388.	0.6	7
190	Improving cell disruption efficiency to facilitate protein release from microalgae using chemical and mechanical integrated method. <i>Biochemical Engineering Journal</i> , 2018, 135, 83-90.	3.6	61
191	Engineering microbes for direct fermentation of cellulose to bioethanol. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1089-1105.	9.0	55
192	Biomass based hydrogen production by dark fermentation “ recent trends and opportunities for greener processes. <i>Current Opinion in Biotechnology</i> , 2018, 50, 136-145.	6.6	117
193	Thermal degradation of carbohydrates, proteins and lipids in microalgae analyzed by evolutionary computation. <i>Energy Conversion and Management</i> , 2018, 160, 209-219.	9.2	101
194	Evaluating new bio-hydrogen producers: <i>Clostridium perfringens</i> strain JJC, <i>Clostridium bifermentans</i> strain WYM and <i>Clostridium</i> sp. strain Ade.TY. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 590-598.	2.2	30
195	Analysis of Economic and Environmental Aspects of Microalgae Biorefinery for Biofuels Production: A Review. <i>Biotechnology Journal</i> , 2018, 13, 1700618.	3.5	87
196	Strategies to control biological contaminants during microalgal cultivation in open ponds. <i>Bioresource Technology</i> , 2018, 252, 180-187.	9.6	65
197	A highly efficient two-stage cultivation strategy for lutein production using heterotrophic culture of <i>Chlorella sorokiniana</i> MB-1-M12. <i>Bioresource Technology</i> , 2018, 253, 141-147.	9.6	71
198	Hydrogen production from biomass using iron-based chemical looping technology: Validation, optimization, and efficiency. <i>Chemical Engineering Journal</i> , 2018, 337, 405-415.	12.7	51

#	ARTICLE	IF	CITATIONS
199	Direct and highly productive conversion of cyanobacteria <i>Arthrospira platensis</i> to ethanol with CaCl ₂ addition. <i>Biotechnology for Biofuels</i> , 2018, 11, 50.	6.2	21
200	Torrefaction performance and energy usage of biomass wastes and their correlations with torrefaction severity index. <i>Applied Energy</i> , 2018, 220, 598-604.	10.1	175
201	Enhancing biomass and lipid productions of microalgae in palm oil mill effluent using carbon and nutrient supplementation. <i>Energy Conversion and Management</i> , 2018, 164, 188-197.	9.2	82
202	Electro-peroxone pretreatment for enhanced simulated hospital wastewater treatment and antibiotic resistance genes reduction. <i>Environment International</i> , 2018, 115, 70-78.	10.0	64
203	Mild cell disruption methods for bio-functional proteins recovery from microalgae—Recent developments and future perspectives. <i>Algal Research</i> , 2018, 31, 506-516.	4.6	87
204	Sustainable approaches for algae utilisation in bioenergy production. <i>Renewable Energy</i> , 2018, 129, 838-852.	8.9	241
205	Combining light strategies with recycled medium to enhance the economic feasibility of phycocyanin production with <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , 2018, 247, 669-675.	9.6	58
206	Lead removal by a magnetic biochar derived from persulfate-ZVI treated sludge together with one-pot pyrolysis. <i>Bioresource Technology</i> , 2018, 247, 463-470.	9.6	138
207	Heterotrophic cultivation of microalgae for pigment production: A review. <i>Biotechnology Advances</i> , 2018, 36, 54-67.	11.7	282
208	Waste biorefineries — integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , 2018, 50, 101-110.	6.6	119
209	Improvements in algal lipid production: a systems biology and gene editing approach. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 369-385.	9.0	65
210	Density Functional Theory-based modeling and calculations of a polyamide molecular unit for studying forward-osmosis-dewatering of microalgae. , 2018, , .		3
211	Hygroscopic transformation of woody biomass torrefaction for carbon storage. <i>Applied Energy</i> , 2018, 231, 768-776.	10.1	111
212	Enhancing carbon capture and lipid accumulation by genetic carbonic anhydrase in microalgae. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 131-141.	5.3	68
213	Characterization of biomass waste torrefaction under conventional and microwave heating. <i>Bioresource Technology</i> , 2018, 264, 7-16.	9.6	75
214	An efficient Photobioreactors/Raceway circulating system combined with alkaline-CO ₂ capturing medium for microalgal cultivation. <i>Bioresource Technology</i> , 2018, 266, 398-406.	9.6	16
215	Anaerobic co-digestion of sewage sludge and food waste for hydrogen and VFA production with microbial community analysis. <i>Waste Management</i> , 2018, 78, 789-799.	7.4	88
216	Sonication and grinding pre-treatments on <i>Gelidium amansii</i> seaweed for the extraction and characterization of Agarose. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	6.0	23

#	ARTICLE	IF	CITATIONS
217	Economic and life-cycle greenhouse gas optimization of microalgae-to-biofuels chains. <i>Bioresource Technology</i> , 2018, 267, 550-559.	9.6	41
218	Food waste compost as an organic nutrient source for the cultivation of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2018, 267, 356-362.	9.6	89
219	A process for simultaneously achieving phenol biodegradation and polyhydroxybutyrate accumulation using <i>Cupriavidus taiwanensis</i> 187. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	5
220	Integration of sludge digestion and microalgae cultivation for enhancing bioenergy and biorefinery. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 76-90.	16.4	40
221	Surface grafting techniques on the improvement of membrane bioreactor: State-of-the-art advances. <i>Bioresource Technology</i> , 2018, 269, 489-502.	9.6	58
222	Integration of calcium looping technology in combined cycle power plants using co-gasification of torrefied biomass and coal blends. <i>Energy Conversion and Management</i> , 2018, 174, 489-503.	9.2	8
223	Microalgae cultivation in palm oil mill effluent (POME) for lipid production and pollutants removal. <i>Energy Conversion and Management</i> , 2018, 174, 430-438.	9.2	73
224	Effects of water culture medium, cultivation systems and growth modes for microalgae cultivation: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 332-344.	5.3	174
225	Extraction of proteins from microalgae using integrated method of sugaring-out assisted liquid biphasic flotation (LBF) and ultrasound. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 231-239.	8.2	56
226	Exploitation and Biorefinery of Microalgae. , 2018, , 571-601.		19
227	Microalgae biorefinery: High value products perspectives. <i>Bioresource Technology</i> , 2017, 229, 53-62.	9.6	947
228	Dynamic metabolic profiling together with transcription analysis reveals salinity-induced starch-to-lipid biosynthesis in alga <i>Chlamydomonas</i> sp. JSC4. <i>Scientific Reports</i> , 2017, 7, 45471.	3.3	121
229	Improvement of outdoor culture efficiency of cyanobacteria by over-expression of stress tolerance genes and its implication as bio-refinery feedstock. <i>Bioresource Technology</i> , 2017, 244, 1294-1303.	9.6	26
230	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. <i>Bioresource Technology</i> , 2017, 244, 1456-1464.	9.6	144
231	Recovery of gold from industrial wastewater by extracellular proteins obtained from a thermophilic bacterium <i>Tepidimonas fonticaldi</i> AT-A2. <i>Bioresource Technology</i> , 2017, 239, 160-170.	9.6	27
232	Lutein production with wild-type and mutant strains of <i>Chlorella sorokiniana</i> MB-1 under mixotrophic growth. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 66-73.	5.3	54
233	Single-step disruption and protein recovery from <i>Chlorella vulgaris</i> using ultrasonication and ionic liquid buffer aqueous solutions as extractive solvents. <i>Biochemical Engineering Journal</i> , 2017, 124, 26-35.	3.6	61
234	Ferrofluid-assisted rapid and directional harvesting of marine microalgal <i>Chlorella</i> sp. used for biodiesel production. <i>Bioresource Technology</i> , 2017, 244, 1337-1340.	9.6	14

#	ARTICLE	IF	CITATIONS
235	Evolutionary engineering of salt-resistant <i>Chlamydomonas</i> sp. strains reveals salinity stress-activated starch-to-lipid biosynthesis switching. <i>Bioresource Technology</i> , 2017, 245, 1484-1490.	9.6	50
236	Ethanol production by modified polyvinyl alcohol-immobilized <i>Zymomonas mobilis</i> and in situ membrane distillation under very high gravity condition. <i>Applied Energy</i> , 2017, 202, 1-5.	10.1	25
237	Proteins recovery from wet microalgae using liquid biphasic flotation (LBF). <i>Bioresource Technology</i> , 2017, 244, 1329-1336.	9.6	58
238	A review on the biomass pretreatment and inhibitor removal methods as key-steps towards efficient macroalgae-based biohydrogen production. <i>Bioresource Technology</i> , 2017, 244, 1341-1348.	9.6	79
239	Manipulating environmental stresses and stress tolerance of microalgae for enhanced production of lipids and value-added productsâ€“A review. <i>Bioresource Technology</i> , 2017, 244, 1198-1206.	9.6	250
240	Current advances on fermentative biobutanol production using third generation feedstock. <i>Biotechnology Advances</i> , 2017, 35, 1049-1059.	11.7	98
241	Gasification kinetics of raw and wet-torrefied microalgae <i>Chlorella vulgaris</i> ESP-31 in carbon dioxide. <i>Bioresource Technology</i> , 2017, 244, 1393-1399.	9.6	29
242	Nutrients and COD removal of swine wastewater with an isolated microalgal strain <i>Neochloris aquatica</i> CL-M1 accumulating high carbohydrate content used for biobutanol production. <i>Bioresource Technology</i> , 2017, 242, 7-14.	9.6	81
243	Global optimization of microalgae-to-biodiesel chains with integrated cogasification combined cycle systems based on greenhouse gas emissions reductions. <i>Applied Energy</i> , 2017, 197, 63-82.	10.1	32
244	Recent insights into biohydrogen production by microalgae â€“ From biophotolysis to dark fermentation. <i>Bioresource Technology</i> , 2017, 227, 373-387.	9.6	241
245	Recent advances in nanoscale-metal assisted biochar derived from waste biomass used for heavy metals removal. <i>Bioresource Technology</i> , 2017, 246, 123-134.	9.6	134
246	Carbon capture and utilization of fermentation CO ₂ : Integrated ethanol fermentation and succinic acid production as an efficient platform. <i>Applied Energy</i> , 2017, 206, 364-371.	10.1	57
247	Expression of Synthetic Phytoene Synthase Gene to Enhance Î²-Carotene Production in <i>Scenedesmus</i> sp. CPC2. <i>Biotechnology Journal</i> , 2017, 12, 1700204.	3.5	45
248	Enhancing lutein production with <i>Chlorella sorokiniana</i> Mb-1 by optimizing acetate and nitrate concentrations under mixotrophic growth. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 88-96.	5.3	45
249	Fuel Property Variation of Biomass Undergoing Torrefaction. <i>Energy Procedia</i> , 2017, 105, 108-112.	1.8	11
250	Effect of Wet Torrefaction on Thermal Decomposition Behavior of Microalga <i>Chlorella vulgaris</i> ESP-31. <i>Energy Procedia</i> , 2017, 105, 206-211.	1.8	10
251	Ability of an alkali-tolerant mutant strain of the microalga <i>Chlorella</i> sp. AT1 to capture carbon dioxide for increasing carbon dioxide utilization efficiency. <i>Bioresource Technology</i> , 2017, 244, 243-251.	9.6	40
252	High-efficiency removal of lead from wastewater by biochar derived from anaerobic digestion sludge. <i>Bioresource Technology</i> , 2017, 246, 142-149.	9.6	216

#	ARTICLE	IF	CITATIONS
253	Recent progress in catalytic conversion of microalgae oil to green hydrocarbon: A review. Journal of the Taiwan Institute of Chemical Engineers, 2017, 79, 116-124.	5.3	31
254	Recent developments on algal biochar production and characterization. Bioresource Technology, 2017, 246, 2-11.	9.6	281
255	Microalgae from wastewater treatment to biochar – Feedstock preparation and conversion technologies. Energy Conversion and Management, 2017, 150, 1-13.	9.2	144
256	Recent Developments on Genetic Engineering of Microalgae for Biofuels and Bio-based Chemicals. Biotechnology Journal, 2017, 12, 1600644.	3.5	162
257	Enhancing cell growth and lutein productivity of <i>Desmodesmus</i> sp. F51 by optimal utilization of inorganic carbon sources and ammonium salt. Bioresource Technology, 2017, 244, 664-671.	9.6	65
258	Feasibility of CO ₂ mitigation and carbohydrate production by microalga <i>Scenedesmus obliquus</i> CNW-N used for bioethanol fermentation under outdoor conditions: effects of seasonal changes. Biotechnology for Biofuels, 2017, 10, 27.	6.2	63
259	Recent insights into continuous-flow biodiesel production via catalytic and non-catalytic transesterification processes. Applied Energy, 2017, 185, 376-409.	10.1	115
260	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. Green Chemistry, 2017, 19, 44-67.	9.0	216
261	Wet torrefaction of microalga <i>Chlorella vulgaris</i> ESP-31 with microwave-assisted heating. Energy Conversion and Management, 2017, 141, 163-170.	9.2	103
262	Surfactant (CTAB) assisted flower-like Bi ₂ WO ₆ through hydrothermal method: Unintentional bromide ion doping and photocatalytic activity. Catalysis Communications, 2017, 88, 68-72.	3.3	49
263	Calcium ion adsorption with extracellular proteins of thermophilic bacteria isolated from geothermal sites – A feasibility study. Biochemical Engineering Journal, 2017, 117, 48-56.	3.6	11
264	Transcriptome and physiological analysis of a lutein-producing alga <i>Desmodesmus</i> sp. reveals the molecular mechanisms for high lutein productivity. Algal Research, 2017, 21, 103-119.	4.6	19
265	Extractive disruption process integration using ultrasonication and an aqueous two-phase system for protein recovery from <i>Chlorella sorokiniana</i> . Engineering in Life Sciences, 2017, 17, 357-369.	3.6	33
266	Uncatalyzed direct biodiesel production from wet microalgae under subcritical conditions. , 2017, , .		1
267	Potential biomedical applications of marine algae. Bioresource Technology, 2017, 244, 1407-1415.	9.6	142
268	A Holistic Approach to Managing Microalgae for Biofuel Applications. International Journal of Molecular Sciences, 2017, 18, 215.	4.1	113
269	Characterization of a heat-tolerant <i>Chlorella</i> sp. GD mutant with enhanced photosynthetic CO ₂ fixation efficiency and its implication as lactic acid fermentation feedstock. Biotechnology for Biofuels, 2017, 10, 214.	6.2	21
270	Improving carbohydrate production of <i>Chlorella sorokiniana</i> NIES-2168 through semi-continuous process coupled with mixotrophic cultivation. Biotechnology Journal, 2016, 11, 1072-1081.	3.5	28

#	ARTICLE	IF	CITATIONS
271	Applications of microfluidics in microalgae biotechnology: A review. <i>Biotechnology Journal</i> , 2016, 11, 327-335.	3.5	45
272	Expression of type 2 diacylglycerol acyltransferase gene <i>DGTT1</i> from <i>Chlamydomonas reinhardtii</i> enhances lipid production in <i>Scenedesmus obliquus</i> . <i>Biotechnology Journal</i> , 2016, 11, 336-344.	3.5	57
273	Recent advances in yeast cell-surface display technologies for waste biorefineries. <i>Bioresource Technology</i> , 2016, 215, 324-333.	9.6	60
274	Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production. <i>Bioresource Technology</i> , 2016, 215, 346-356.	9.6	162
275	Using an innovative pH-stat CO ₂ feeding strategy to enhance cell growth and C-phycoerythrin production from <i>Spirulina platensis</i> . <i>Biochemical Engineering Journal</i> , 2016, 112, 78-85.	3.6	45
276	Simultaneous microalgal biomass production and CO ₂ fixation by cultivating <i>Chlorella</i> sp. GD with aquaculture wastewater and boiler flue gas. <i>Bioresource Technology</i> , 2016, 221, 241-250.	9.6	101
277	Removal of cephalosporin antibiotics 7-ACA from wastewater during the cultivation of lipid-accumulating microalgae. <i>Bioresource Technology</i> , 2016, 221, 284-290.	9.6	125
278	Perspectives on the feasibility of using microalgae for industrial wastewater treatment. <i>Bioresource Technology</i> , 2016, 222, 485-497.	9.6	333
279	Biodiesel production using immobilized lipase: feasibility and challenges. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 896-916.	3.7	76
280	Immobilization of <i>Zymomonas mobilis</i> with Fe ₂ O ₃ -modified polyvinyl alcohol for continuous ethanol fermentation. <i>Biochemical Engineering Journal</i> , 2016, 114, 298-306.	3.6	14
281	Editorial: Recent Progress in Algal Biotechnology. <i>Biotechnology Journal</i> , 2016, 11, 301-302.	3.5	3
282	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2016, 219, 725-737.	9.6	161
283	Impact of torrefaction on the composition, structure and reactivity of a microalga residue. <i>Applied Energy</i> , 2016, 181, 110-119.	10.1	149
284	Cultivation in wastewaters for energy: A microalgae platform. <i>Applied Energy</i> , 2016, 179, 609-625.	10.1	156
285	Disruption of thermo-tolerant <i>Desmodesmus</i> sp. F51 in high pressure homogenization as a prelude to carotenoids extraction. <i>Biochemical Engineering Journal</i> , 2016, 109, 243-251.	3.6	40
286	Strategies for enhancing lipid production from indigenous microalgae isolates. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 189-194.	5.3	27
287	Cloning and characterization of a robust recombinant azoreductase from <i>Shewanella xiamenensis</i> BC01. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 61, 97-105.	5.3	21
288	Continuous biodiesel conversion via enzymatic transesterification catalyzed by immobilized <i>Burkholderia</i> lipase in a packed-bed bioreactor. <i>Applied Energy</i> , 2016, 168, 340-350.	10.1	59

#	ARTICLE	IF	CITATIONS
289	Biosorption of cadmium by a lipid extraction residue of lipid-rich microalgae. RSC Advances, 2016, 6, 20051-20057.	3.6	17
290	Docosahexaenoic acid production from crude glycerol by Schizochytrium limacinum SR21. Clean Technologies and Environmental Policy, 2016, 18, 2209-2216.	4.1	22
291	Enhancing bio-butanol production from biomass of Chlorella vulgaris JSC-6 with sequential alkali pretreatment and acid hydrolysis. Bioresource Technology, 2016, 200, 557-564.	9.6	101
292	Production, extraction and stabilization of lutein from microalga Chlorella sorokiniana MB-1. Bioresource Technology, 2016, 200, 500-505.	9.6	82
293	Producing carbohydrate-rich microalgal biomass grown under mixotrophic conditions as feedstock for biohydrogen production. International Journal of Hydrogen Energy, 2016, 41, 4413-4420.	7.1	52
294	Improving protein production of indigenous microalga <i>Chlorella vulgaris</i> FSP-6 by photobioreactor design and cultivation strategies. Biotechnology Journal, 2015, 10, 905-914.	3.5	33
295	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. Biotechnology Journal, 2015, 10, 886-898.	3.5	38
296	CO ₂ , NO _x and SO _x removal from flue gas via microalgae cultivation: A critical review. Biotechnology Journal, 2015, 10, 829-839.	3.5	132
297	Microalgae Oil: Algae Cultivation and Harvest, Algae Residue Torrefaction and Diesel Engine Emissions Tests. Aerosol and Air Quality Research, 2015, 15, 81-98.	2.1	42
298	Dewatering and Drying Methods for Microalgae. Drying Technology, 2015, 33, 443-454.	3.1	147
299	Characterization of an alkaline earth metal-doped solid superacid and its activity for the esterification of oleic acid with methanol. Green Chemistry, 2015, 17, 3609-3620.	9.0	35
300	Enhancing the oil extraction efficiency of Chlorella vulgaris with cell-disruptive pretreatment using active extracellular substances from Bacillus thuringiensis ITRI-G1. Biochemical Engineering Journal, 2015, 101, 185-190.	3.6	18
301	Microalgae biomass harvesting by bioflocculation-interpretation by classical DLVO theory. Biochemical Engineering Journal, 2015, 101, 160-167.	3.6	62
302	Using recombinant cyanobacterium (Synechococcus elongatus) with increased carbohydrate productivity as feedstock for bioethanol production via separate hydrolysis and fermentation process. Bioresource Technology, 2015, 184, 33-41.	9.6	44
303	Enhanced removal of Zn ²⁺ or Cd ²⁺ by the flocculating Chlorella vulgaris JSC-7. Journal of Hazardous Materials, 2015, 289, 38-45.	12.4	70
304	Current progress and future prospect of microalgal biomass harvest using various flocculation technologies. Bioresource Technology, 2015, 184, 251-257.	9.6	235
305	Effects of nitrogen source availability and bioreactor operating strategies on lutein production with Scenedesmus obliquus FSP-3. Bioresource Technology, 2015, 184, 131-138.	9.6	50
306	Lutein in specific marigold flowers and microalgae. Journal of the Taiwan Institute of Chemical Engineers, 2015, 49, 90-94.	5.3	42

#	ARTICLE	IF	CITATIONS
307	Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater. <i>Bioresource Technology</i> , 2015, 191, 369-376.	9.6	41
308	Novel approaches of producing bioenergies from microalgae: A recent review. <i>Biotechnology Advances</i> , 2015, 33, 1219-1227.	11.7	92
309	Enhancing the production of eicosapentaenoic acid (EPA) from <i>Nannochloropsis oceanica</i> CY2 using innovative photobioreactors with optimal light source arrangements. <i>Bioresource Technology</i> , 2015, 191, 407-413.	9.6	51
310	Torrefaction operation and optimization of microalga residue for energy densification and utilization. <i>Applied Energy</i> , 2015, 154, 622-630.	10.1	101
311	Simultaneous nutrient removal and lipid production with <i>Chlorella vulgaris</i> on sterilized and non-sterilized anaerobically pretreated piggery wastewater. <i>Biochemical Engineering Journal</i> , 2015, 103, 177-184.	3.6	32
312	Editorial. <i>Bioresource Technology</i> , 2015, 184, 1.	9.6	0
313	Biodiesel production from wet microalgae feedstock using sequential wet extraction/transesterification and direct transesterification processes. <i>Bioresource Technology</i> , 2015, 194, 179-186.	9.6	98
314	Cultivation of <i>Chlorella</i> sp. GD using piggery wastewater for biomass and lipid production. <i>Bioresource Technology</i> , 2015, 194, 326-333.	9.6	100
315	Numerical Simulation of Light/Dark Cycle Frequency of Microalgae Fluid in a Helical Tubular Photobioreactor for Carbon Dioxide Capture. <i>International Journal of Green Energy</i> , 2015, 12, 1037-1045.	3.8	4
316	An energy analysis of torrefaction for upgrading microalga residue as a solid fuel. <i>Bioresource Technology</i> , 2015, 185, 285-293.	9.6	76
317	Dynamic metabolic profiling of the marine microalga <i>Chlamydomonas</i> sp. JSC4 and enhancing its oil production by optimizing light intensity. <i>Biotechnology for Biofuels</i> , 2015, 8, 48.	6.2	61
318	Treatment of Sulfate/Sulfide-Containing Wastewaters Using a Microbial Fuel Cell: Single and Two-Anode Systems. <i>International Journal of Green Energy</i> , 2015, 12, 998-1004.	3.8	13
319	Enhancement of Lutein Yield from Coagulated <i>Chlorella</i> sp. ESP-6 with Sodium Hypochlorite. <i>Drying Technology</i> , 2015, 33, 429-433.	3.1	2
320	Exploring the inhibitory characteristics of acid hydrolysates upon butanol fermentation: A toxicological assessment. <i>Bioresource Technology</i> , 2015, 198, 571-576.	9.6	20
321	Microalgae “microbial fuel cell: A mini review. <i>Bioresource Technology</i> , 2015, 198, 891-895.	9.6	132
322	Bio-butanol production from glycerol with <i>Clostridium pasteurianum</i> CH4: the effects of butyrate addition and in situ butanol removal via membrane distillation. <i>Biotechnology for Biofuels</i> , 2015, 8, 168.	6.2	37
323	Cultivation of <i>Chlorella vulgaris</i> JSC-6 with swine wastewater for simultaneous nutrient/COD removal and carbohydrate production. <i>Bioresource Technology</i> , 2015, 198, 619-625.	9.6	195
324	Struvite as alternative nutrient source for cultivation of microalgae <i>Chlorella vulgaris</i> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 56, 73-76.	5.3	22

#	ARTICLE	IF	CITATIONS
325	Microalgal drying and cell disruption “ Recent advances. <i>Bioresource Technology</i> , 2015, 184, 258-266.	9.6	192
326	Exploring the potential of using algae in cosmetics. <i>Bioresource Technology</i> , 2015, 184, 355-362.	9.6	325
327	Biological butanol production from microalgae-based biodiesel residues by <i>Clostridium acetobutylicum</i> . <i>Bioresource Technology</i> , 2015, 184, 379-385.	9.6	110
328	Thermochemical conversion of microalgal biomass into biofuels: A review. <i>Bioresource Technology</i> , 2015, 184, 314-327.	9.6	451
329	Biosequestration of atmospheric CO ₂ and flue gas-containing CO ₂ by microalgae. <i>Bioresource Technology</i> , 2015, 184, 190-201.	9.6	417
330	Supercritical fluid extraction of valuable compounds from microalgal biomass. <i>Bioresource Technology</i> , 2015, 184, 291-296.	9.6	116
331	Lutein production from biomass: Marigold flowers versus microalgae. <i>Bioresource Technology</i> , 2015, 184, 421-428.	9.6	267
332	Biodiesel Production from Waste Cooking Oil by Two-step Catalytic Conversion. <i>Energy Procedia</i> , 2014, 61, 1302-1305.	1.8	25
333	Enhancing Biohydrogen Production from <i>Chlorella Vulgaris</i> FSP-E Under Mixotrophic Cultivation Conditions. <i>Energy Procedia</i> , 2014, 61, 870-873.	1.8	7
334	Thermophilic hydrogen production from sludge pretreated by thermophilic bacteria: Analysis of the advantages of microbial community and metabolism. <i>Bioresource Technology</i> , 2014, 172, 433-437.	9.6	43
335	Effect of Medium Composition and pH Control Strategies on Butanol Fermentation with <i>Clostridium Acetobutylicum</i> . <i>Energy Procedia</i> , 2014, 61, 1691-1694.	1.8	12
336	Characterization of the flocculating agent from the spontaneously flocculating microalga <i>Chlorella vulgaris</i> JSC-7. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 29-33.	2.2	107
337	Kinetics of enzymatic transesterification and thermal deactivation using immobilized <i>Burkholderia</i> lipase as catalyst. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 481-491.	3.4	16
338	Enhancing lutein productivity of an indigenous microalga <i>Scenedesmus obliquus</i> FSP-3 using light-related strategies. <i>Bioresource Technology</i> , 2014, 152, 275-282.	9.6	171
339	The effects of dissolved oxygen level on the distribution of 1,3-propanediol and 2,3-butanediol produced from glycerol by an isolated indigenous <i>Klebsiella</i> sp. Ana-WS5. <i>Bioresource Technology</i> , 2014, 153, 374-378.	9.6	20
340	Effects of pH and fermentation strategies on 2,3-butanediol production with an isolated <i>Klebsiella</i> sp. Zmd30 strain. <i>Bioresource Technology</i> , 2014, 152, 169-176.	9.6	33
341	The influences of pH control strategies on the distribution of 1,3-propanediols and 2,3-butanediols production by an isolated indigenous <i>Klebsiella</i> sp. Ana-WS5. <i>Bioresource Technology</i> , 2014, 159, 292-296.	9.6	5
342	Simultaneous enhancement of CO ₂ fixation and lutein production with thermo-tolerant <i>Desmodesmus</i> sp. F51 using a repeated fed-batch cultivation strategy. <i>Biochemical Engineering Journal</i> , 2014, 86, 33-40.	3.6	56

#	ARTICLE	IF	CITATIONS
343	Recovery of high-value metals from geothermal sites by biosorption and bioaccumulation. <i>Bioresource Technology</i> , 2014, 160, 182-190.	9.6	86
344	Fixed-bed biosorption of cadmium using immobilized <i>Scenedesmus obliquus</i> CNW-N cells on loofa (<i>Luffa cylindrica</i>) sponge. <i>Bioresource Technology</i> , 2014, 160, 175-181.	9.6	44
345	Simultaneous removal of sulfide, nitrate and acetate under denitrifying sulfide removal condition: Modeling and experimental validation. <i>Journal of Hazardous Materials</i> , 2014, 264, 16-24.	12.4	45
346	Harvesting of microalgae <i>Desmodesmus</i> sp. F51 by bioflocculation with bacterial bioflocculant. <i>Algal Research</i> , 2014, 6, 186-193.	4.6	66
347	Hydrogen production using biocathode single-chamber microbial electrolysis cells fed by molasses wastewater at low temperature. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19369-19375.	7.1	41
348	Characterization and kinetics of bio-butanol production with <i>Clostridium acetobutylicum</i> ATCC824 using mixed sugar medium simulating microalgae-based carbohydrates. <i>Biochemical Engineering Journal</i> , 2014, 91, 220-230.	3.6	28
349	Thermal decomposition dynamics and severity of microalgae residues in torrefaction. <i>Bioresource Technology</i> , 2014, 169, 258-264.	9.6	135
350	Glycogen production for biofuels by the euryhaline cyanobacteria <i>Synechococcus</i> sp. strain PCC 7002 from an oceanic environment. <i>Biotechnology for Biofuels</i> , 2014, 7, 88.	6.2	85
351	Optimizing biodiesel production in marine <i>Chlamydomonas</i> sp. JSC4 through metabolic profiling and an innovative salinity-gradient strategy. <i>Biotechnology for Biofuels</i> , 2014, 7, 97.	6.2	101
352	Development of lipid productivities under different CO ₂ conditions of marine microalgae <i>Chlamydomonas</i> sp. JSC4. <i>Bioresource Technology</i> , 2014, 152, 247-252.	9.6	82
353	Perspectives on engineering strategies for improving biofuel production from microalgae – A critical review. <i>Biotechnology Advances</i> , 2014, 32, 1448-1459.	11.7	258
354	Modeling the methanolysis of triglyceride catalyzed by immobilized lipase in a continuous-flow packed-bed reactor. <i>Applied Energy</i> , 2014, 126, 151-160.	10.1	15
355	Isothermal and non-isothermal torrefaction characteristics and kinetics of microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2014, 155, 245-251.	9.6	109
356	Achieving high lipid productivity of a thermotolerant microalga <i>Desmodesmus</i> sp. F2 by optimizing environmental factors and nutrient conditions. <i>Bioresource Technology</i> , 2014, 156, 108-116.	9.6	61
357	Exploring the high lipid production potential of a thermotolerant microalga using statistical optimization and semi-continuous cultivation. <i>Bioresource Technology</i> , 2014, 163, 128-135.	9.6	63
358	Utilization of carbon dioxide in industrial flue gases for the cultivation of microalga <i>Chlorella</i> sp.. <i>Bioresource Technology</i> , 2014, 166, 485-493.	9.6	191
359	Application of Biosurfactant Surfactin on Copper Ion Removal from Sand Surfaces with Continuous Flushing Technique. <i>Tenside, Surfactants, Detergents</i> , 2014, 51, 407-414.	1.2	7
360	Sulfate-reduction, sulfide-oxidation and elemental sulfur bioreduction process: Modeling and experimental validation. <i>Bioresource Technology</i> , 2013, 147, 202-211.	9.6	56

#	ARTICLE	IF	CITATIONS
361	Bioprocess development on microalgae-based CO ₂ fixation and bioethanol production using <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2013, 145, 142-149.	9.6	125
362	Biohydrogen from Renewable Resources. , 2013, , 185-221.		16
363	Selection of elite microalgae for biodiesel production in tropical conditions using a standardized platform. <i>Bioresource Technology</i> , 2013, 147, 135-142.	9.6	22
364	Improving microalgal oil collecting efficiency by pretreating the microalgal cell wall with destructive bacteria. <i>Biochemical Engineering Journal</i> , 2013, 81, 170-176.	3.6	54
365	Removal of antimony (Sb(V)) from Sb mine drainage: Biological sulfate reduction and sulfide oxidationâ€“precipitation. <i>Bioresource Technology</i> , 2013, 146, 799-802.	9.6	92
366	Characterization and optimization of carbohydrate production from an indigenous microalga <i>Chlorella vulgaris</i> FSP-E. <i>Bioresource Technology</i> , 2013, 135, 157-165.	9.6	171
367	Engineering strategies for improving the CO ₂ fixation and carbohydrate productivity of <i>Scenedesmus obliquus</i> CNW-N used for bioethanol fermentation. <i>Bioresource Technology</i> , 2013, 143, 163-171.	9.6	108
368	Current developments in highâ€“throughput analysis for microalgae cellular contents. <i>Biotechnology Journal</i> , 2013, 8, 1301-1314.	3.5	23
369	Phototrophic cultivation of a thermo-tolerant <i>Desmodesmus</i> sp. for lutein production: Effects of nitrate concentration, light intensity and fed-batch operation. <i>Bioresource Technology</i> , 2013, 144, 435-444.	9.6	124
370	Engineering strategies for enhancing the production of eicosapentaenoic acid (EPA) from an isolated microalga <i>Nannochloropsis oceanica</i> CY2. <i>Bioresource Technology</i> , 2013, 147, 160-167.	9.6	75
371	Establishment of an efficient genetic transformation system in <i>Scenedesmus obliquus</i> . <i>Journal of Biotechnology</i> , 2013, 163, 61-68.	3.8	85
372	Characterization, extraction and purification of lutein produced by an indigenous microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Biochemical Engineering Journal</i> , 2013, 78, 24-31.	3.6	92
373	<i>Tepidimonas fonticaldi</i> sp. nov., a slightly thermophilic betaproteobacterium isolated from a hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1810-1816.	1.7	26
374	Microalgae-based biorefinery â€“ From biofuels to natural products. <i>Bioresource Technology</i> , 2013, 135, 166-174.	9.6	406
375	Cloning and expression of Cel8A from <i>Klebsiella pneumoniae</i> in <i>Escherichia coli</i> and comparison to cel gene of <i>Cellulomonas uda</i> . <i>Biochemical Engineering Journal</i> , 2013, 78, 53-58.	3.6	11
376	Enhancing microalgal oil/lipid production from <i>Chlorella sorokiniana</i> CY1 using deep-sea water supplemented cultivation medium. <i>Biochemical Engineering Journal</i> , 2013, 77, 74-81.	3.6	64
377	Photoheterotrophic growth of <i>Chlorella vulgaris</i> ESP6 on organic acids from dark hydrogen fermentation effluents. <i>Bioresource Technology</i> , 2013, 145, 331-336.	9.6	58
378	Engineering strategies for simultaneous enhancement of C-phycocyanin production and CO ₂ fixation with <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , 2013, 145, 307-312.	9.6	115

#	ARTICLE	IF	CITATIONS
379	Enhancing butanol production with <i>Clostridium pasteurianum</i> CH4 using sequential glucose-glycerol addition and simultaneous dual-substrate cultivation strategies. <i>Bioresource Technology</i> , 2013, 135, 324-330.	9.6	44
380	Microalgae-based carbohydrates for biofuel production. <i>Biochemical Engineering Journal</i> , 2013, 78, 1-10.	3.6	563
381	Separation of microalgae with different lipid contents by dielectrophoresis. <i>Bioresource Technology</i> , 2013, 135, 137-141.	9.6	49
382	Kinetics of transesterification of olive oil with methanol catalyzed by immobilized lipase derived from an isolated <i>Burkholderia</i> sp. strain. <i>Bioresource Technology</i> , 2013, 145, 193-203.	9.6	20
383	Lutein recovery from <i>Chlorella</i> sp. ESP-6 with coagulants. <i>Bioresource Technology</i> , 2013, 139, 176-180.	9.6	24
384	Cyclic Filtration-Cleaning of <i>Chlorella vulgaris</i> Using Surface-Modified Hydrophilic Polytetrafluoroethylene Membrane with Polyaluminum Chloride as Coagulant. <i>Drying Technology</i> , 2013, 31, 207-212.	3.1	5
385	Characterization of flocculating agent from the self-flocculating microalga <i>Scenedesmus obliquus</i> AS-6-1 for efficient biomass harvest. <i>Bioresource Technology</i> , 2013, 145, 285-289.	9.6	114
386	Effect of solvents and oil content on direct transesterification of wet oil-bearing microalgal biomass of <i>Chlorella vulgaris</i> ESP-31 for biodiesel synthesis using immobilized lipase as the biocatalyst. <i>Bioresource Technology</i> , 2013, 135, 213-221.	9.6	117
387	Microalgae harvesting and subsequent biodiesel conversion. <i>Bioresource Technology</i> , 2013, 140, 179-186.	9.6	48
388	Direct conversion of <i>Spirulina</i> to ethanol without pretreatment or enzymatic hydrolysis processes. <i>Energy and Environmental Science</i> , 2013, 6, 1844.	30.8	103
389	Algal biomass dehydration. <i>Bioresource Technology</i> , 2013, 135, 720-729.	9.6	119
390	Dark fermentative hydrogen production with crude glycerol from biodiesel industry using indigenous hydrogen-producing bacteria. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15815-15822.	7.1	71
391	Biohydrogen production by a novel integration of dark fermentation and mixotrophic microalgae cultivation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15807-15814.	7.1	84
392	Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. <i>Bioresource Technology</i> , 2013, 135, 191-198.	9.6	538
393	Rapid and in Vivo Quantification of Cellular Lipids in <i>Chlorella vulgaris</i> Using Near-Infrared Raman Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 2155-2160.	6.5	32
394	Optimizing lipase production from isolated <i>Burkholderia</i> sp.. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 511-516.	5.3	16
395	Immobilization of <i>Burkholderia</i> sp. lipase on a ferric silica nanocomposite for biodiesel production. <i>Journal of Biotechnology</i> , 2012, 158, 112-119.	3.8	154
396	Prodigiosin-induced cytotoxicity involves RAD51 down-regulation through the JNK and p38 MAPK pathways in human breast carcinoma cell lines. <i>Toxicology Letters</i> , 2012, 212, 83-89.	0.8	26

#	ARTICLE	IF	CITATIONS
397	Prodigiosin down-regulates SKP2 to induce p27 ^{KIP1} stabilization and antiproliferation in human lung adenocarcinoma cells. <i>British Journal of Pharmacology</i> , 2012, 166, 2095-2108.	5.4	39
398	Biohydrogen from cellulosic feedstock: Dilution-to-stimulation approach. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15582-15587.	7.1	26
399	Biohydrogen from lignocellulosic feedstock via one-step process. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15569-15574.	7.1	34
400	Chitosan coagulation-membrane filtration of <i>Chlorella vulgaris</i> . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15643-15647.	7.1	17
401	Fermentative hydrogen production from wastewaters: A review and prognosis. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15632-15642.	7.1	259
402	Fermentative hydrogen production by <i>Clostridium butyricum</i> CGS5 using carbohydrate-rich microalgal biomass as feedstock. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15458-15464.	7.1	111
403	Cellulosic ethanol production performance with SSF and SHF processes using immobilized <i>Zymomonas mobilis</i> . <i>Applied Energy</i> , 2012, 100, 19-26.	10.1	70
404	Biobutanol production from agricultural waste by an acclimated mixed bacterial microflora. <i>Applied Energy</i> , 2012, 100, 3-9.	10.1	141
405	Biodiesel production by enzymatic transesterification catalyzed by <i>Burkholderia</i> lipase immobilized on hydrophobic magnetic particles. <i>Applied Energy</i> , 2012, 100, 41-46.	10.1	95
406	Clean Energy for Future Generations: Editorial of the 11th International Conference on Clean Energy (ICCE-2011). <i>Applied Energy</i> , 2012, 100, 1-2.	10.1	5
407	Producing 2,3-butanediol from agricultural waste using an indigenous <i>Klebsiella</i> sp. Zmd30 strain. <i>Biochemical Engineering Journal</i> , 2012, 69, 32-40.	3.6	32
408	Deciphering butanol inhibition to <i>Clostridial</i> species in acclimatized sludge for improving biobutanol production. <i>Biochemical Engineering Journal</i> , 2012, 69, 100-105.	3.6	18
409	Extraction of astaxanthin from <i>Haematococcus pluvialis</i> by supercritical carbon dioxide fluid with ethanol modifier. <i>Engineering in Life Sciences</i> , 2012, 12, 638-647.	3.6	69
410	Fermentative biohydrogen production from starch-containing textile wastewater. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2050-2057.	7.1	42
411	pH-stat photoheterotrophic cultivation of indigenous <i>Chlorella vulgaris</i> ESP-31 for biomass and lipid production using acetic acid as the carbon source. <i>Biochemical Engineering Journal</i> , 2012, 64, 1-7.	3.6	88
412	Photobioreactor strategies for improving the CO ₂ fixation efficiency of indigenous <i>Scenedesmus obliquus</i> CNW-N: Statistical optimization of CO ₂ feeding, illumination, and operation mode. <i>Bioresource Technology</i> , 2012, 105, 106-113.	9.6	48
413	Effects of cultivation conditions and media composition on cell growth and lipid productivity of indigenous microalga <i>Chlorella vulgaris</i> ESP-31. <i>Bioresource Technology</i> , 2012, 105, 120-127.	9.6	254
414	Biosorption of cadmium by CO ₂ -fixing microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2012, 105, 74-80.	9.6	84

#	ARTICLE	IF	CITATIONS
415	Effect of light intensity and nitrogen starvation on CO ₂ fixation and lipid/carbohydrate production of an indigenous microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2012, 113, 244-252.	9.6	645
416	Coagulation-membrane filtration of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2012, 108, 184-189.	9.6	41
417	High yield bio-butanol production by solvent-producing bacterial microflora. <i>Bioresource Technology</i> , 2012, 113, 58-64.	9.6	83
418	Biodiesel synthesis via heterogeneous catalysis using modified strontium oxides as the catalysts. <i>Bioresource Technology</i> , 2012, 113, 8-13.	9.6	74
419	Enzymatic transesterification of microalgal oil from <i>Chlorella vulgaris</i> ESP-31 for biodiesel synthesis using immobilized <i>Burkholderia</i> lipase. <i>Bioresource Technology</i> , 2012, 108, 119-127.	9.6	186
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.	9.6	114
421	Biohydrogen production from pure and natural lignocellulosic feedstock with chemical pretreatment and bacterial hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13955-13963.	7.1	32
422	Enhancing the performance of pilot-scale fermentative hydrogen production by proper combinations of HRT and substrate concentration. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14289-14294.	7.1	33
423	Photo fermentative hydrogen production using dominant components (acetate, lactate, and butyrate) in dark fermentation effluents. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14059-14068.	7.1	51
424	Fermentation strategies for the production of lipase by an indigenous isolate <i>Burkholderia</i> sp. C20. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 96-102.	3.6	15
425	Converting crude glycerol to 1,3-propanediol using resting and immobilized <i>Klebsiella</i> sp. HE-2 cells. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 177-183.	3.6	28
426	Hydrolysis of lignocellulosic feedstock by novel cellulases originating from <i>Pseudomonas</i> sp. CL3 for fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8628-8634.	9.6	78
427	Characterization of cellulolytic enzymes and bioH ₂ production from anaerobic thermophilic <i>Clostridium</i> sp. TCW1. <i>Bioresource Technology</i> , 2011, 102, 8384-8392.	9.6	30
428	Using a starch-rich mutant of <i>Arabidopsis thaliana</i> as feedstock for fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8543-8546.	9.6	6
429	Bioreactor and process design for biohydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8524-8533.	9.6	209
430	Biohydrogen production from lignocellulosic feedstock. <i>Bioresource Technology</i> , 2011, 102, 8514-8523.	9.6	182
431	Perspectives on cultivation strategies and photobioreactor designs for photo-fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8484-8492.	9.6	98
432	Microalgal biomass production and on-site bioremediation of carbon dioxide, nitrogen oxide and sulfur dioxide from flue gas using <i>Chlorella</i> sp. cultures. <i>Bioresource Technology</i> , 2011, 102, 9135-9142.	9.6	230

#	ARTICLE	IF	CITATIONS
433	Perspectives on microalgal CO ₂ -emission mitigation systems – A review. <i>Biotechnology Advances</i> , 2011, 29, 189-198.	11.7	482
434	Nitrogen starvation strategies and photobioreactor design for enhancing lipid content and lipid production of a newly isolated microalga <i>Chlorella vulgaris</i> ESP-31: Implications for biofuels. <i>Biotechnology Journal</i> , 2011, 6, 1358-1366.	3.5	175
435	Harvesting of <i>Scenedesmus obliquus</i> FSP-3 using dispersed ozone flotation. <i>Bioresource Technology</i> , 2011, 102, 82-87.	9.6	80
436	Cultivation, photobioreactor design and harvesting of microalgae for biodiesel production: A critical review. <i>Bioresource Technology</i> , 2011, 102, 71-81.	9.6	1,494
437	A pilot-scale high-rate biohydrogen production system with mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8758-8764.	7.1	90
438	Converting glycerol into hydrogen, ethanol, and diols with a <i>Klebsiella</i> sp. HE1 strain via anaerobic fermentation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 20-25.	5.3	58
439	Multicomponent cellulase production by <i>Cellulomonas biazotea</i> NCIM-2550 and its applications for cellulosic biohydrogen production. <i>Biotechnology Progress</i> , 2010, 26, 406-416.	2.6	52
440	Effect of light supply and carbon source on cell growth and cellular composition of a newly isolated microalga <i>Chlorella vulgaris</i> ESP-31. <i>Engineering in Life Sciences</i> , 2010, 10, 201-208.	3.6	159
441	Characterization of photosynthetic carbon dioxide fixation ability of indigenous <i>Scenedesmus obliquus</i> isolates. <i>Biochemical Engineering Journal</i> , 2010, 53, 57-62.	3.6	69
442	<i>Scenedesmus obliquus</i> CNW-N as a potential candidate for CO ₂ mitigation and biodiesel production. <i>Bioresource Technology</i> , 2010, 101, 8725-8730.	9.6	295
443	Dispersed ozone flotation of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2010, 101, 9092-9096.	9.6	85
444	Identification of anti-lung cancer extract from <i>Chlorella vulgaris</i> C-C by antioxidant property using supercritical carbon dioxide extraction. <i>Process Biochemistry</i> , 2010, 45, 1865-1872.	3.7	97
445	Tyrosinase inhibition, free radical scavenging, antimicroorganism and anticancer proliferation activities of <i>Sapindus mukorossi</i> extracts. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2010, 41, 129-135.	5.3	61
446	Decolorization and biodegradation of reactive dyes and dye wastewater by a developed bacterial consortium. <i>Biodegradation</i> , 2010, 21, 999-1015.	3.0	179
447	Strategies to enhance cell growth and achieve high-level oil production of a <i>Chlorella vulgaris</i> isolate. <i>Biotechnology Progress</i> , 2010, 26, 679-686.	2.6	55
448	Engineering strategies for the enhanced photo-H ₂ production using effluents of dark fermentation processes as substrate. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 13356-13364.	7.1	74
449	Sequential dark-photo fermentation and autotrophic microalgal growth for high-yield and CO ₂ -free biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10944-10953.	7.1	78
450	Dark fermentative hydrogen production from enzymatic hydrolysate of xylan and pretreated rice straw by <i>Clostridium butyricum</i> CGS5. <i>Bioresource Technology</i> , 2010, 101, 5885-5891.	9.6	117

#	ARTICLE	IF	CITATIONS
451	Characterization and high-level production of xylanase from an indigenous cellulolytic bacterium <i>Acinetobacter junii</i> F6-02 from southern Taiwan soil. <i>Biochemical Engineering Journal</i> , 2010, 53, 77-84.	3.6	29
452	Prodigiosin down-regulates survivin to facilitate paclitaxel sensitization in human breast carcinoma cell lines. <i>Toxicology and Applied Pharmacology</i> , 2009, 235, 253-260.	2.8	46
453	Characterization of <i>Burkholderia</i> lipase immobilized on celite carriers. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2009, 40, 359-363.	5.3	35
454	Fermentative hydrogen production from hydrolyzed cellulosic feedstock prepared with a thermophilic anaerobic bacterial isolate. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6189-6200.	7.1	33
455	Production of biohydrogen from hydrolyzed bagasse with thermally preheated sludge. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7612-7617.	7.1	52
456	Sequencing batch reactor enhances bacterial hydrolysis of starch promoting continuous bio-hydrogen production from starch feedstock. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8549-8557.	7.1	21
457	Expressing a bacterial mercuric ion binding protein in plant for phytoremediation of heavy metals. <i>Journal of Hazardous Materials</i> , 2009, 161, 920-925.	12.4	78
458	Decolorization and biodegradation of textile dye Navy blue HER by <i>Trichosporon beigeli</i> NCIM-3326. <i>Journal of Hazardous Materials</i> , 2009, 166, 1421-1428.	12.4	186
459	Biosurfactant-enhanced removal of total petroleum hydrocarbons from contaminated soil. <i>Journal of Hazardous Materials</i> , 2009, 167, 609-614.	12.4	341
460	Cadmium biosorption by polyvinyl alcohol immobilized recombinant <i>Escherichia coli</i> . <i>Journal of Hazardous Materials</i> , 2009, 169, 651-658.	12.4	57
461	Hydrocarbon degrading potential of bacteria isolated from oil-contaminated soil. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2009, 40, 580-582.	5.3	20
462	Isolation of cellulose-hydrolytic bacteria and applications of the cellulolytic enzymes for cellulosic biohydrogen production. <i>Enzyme and Microbial Technology</i> , 2009, 44, 417-425.	3.2	114
463	Biohydrogen production in a three-phase fluidized bed bioreactor using sewage sludge immobilized by ethylene-vinyl acetate copolymer. <i>Bioresource Technology</i> , 2009, 100, 3298-3301.	9.6	59
464	Bioreactors configured with distributors and carriers enhance the performance of continuous dark hydrogen fermentation. <i>Bioresource Technology</i> , 2009, 100, 4381-4387.	9.6	43
465	Biohydrogen production from cellulosic hydrolysate produced via temperature-shift-enhanced bacterial cellulose hydrolysis. <i>Bioresource Technology</i> , 2009, 100, 5802-5807.	9.6	66
466	Exploring optimal environmental factors for fermentative hydrogen production from starch using mixed anaerobic microflora. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1565-1572.	7.1	150
467	Relationship among growth parameters for <i>Clostridium butyricum</i> , <i>hydA</i> gene expression, and biohydrogen production in a sucrose-supplemented batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 525-532.	3.6	31
468	Exopolysaccharides produced by <i>Gordonia alkanivorans</i> enhance bacterial degradation activity for diesel. <i>Biotechnology Letters</i> , 2008, 30, 1201-1206.	2.2	31

#	ARTICLE	IF	CITATIONS
469	Metal biosorption capability of <i>Cupriavidus taiwanensis</i> and its effects on heavy metal removal by nodulated <i>Mimosa pudica</i> . <i>Journal of Hazardous Materials</i> , 2008, 151, 364-371.	12.4	126
470	Exploring multi-metal biosorption by indigenous metal-hyperresistant <i>Enterobacter</i> sp. J1 using experimental design methodologies. <i>Journal of Hazardous Materials</i> , 2008, 153, 372-381.	12.4	24
471	Biosorption of nickel, chromium and zinc by MerP-expressing recombinant <i>Escherichia coli</i> . <i>Journal of Hazardous Materials</i> , 2008, 158, 100-106.	12.4	62
472	Rhamnolipid production with indigenous <i>Pseudomonas aeruginosa</i> EM1 isolated from oil-contaminated site. <i>Bioresource Technology</i> , 2008, 99, 1157-1164.	9.6	156
473	Lipolytic activity of suspended and membrane immobilized lipase originating from indigenous <i>Burkholderia</i> sp. C20. <i>Bioresource Technology</i> , 2008, 99, 1616-1622.	9.6	20
474	Improved phototrophic H ₂ production with <i>Rhodospseudomonas palustris</i> WP3-5 using acetate and butyrate as dual carbon substrates. <i>Bioresource Technology</i> , 2008, 99, 3609-3616.	9.6	74
475	Simultaneous production of 2,3-butanediol, ethanol and hydrogen with a <i>Klebsiella</i> sp. strain isolated from sewage sludge. <i>Bioresource Technology</i> , 2008, 99, 7966-7970.	9.6	72
476	Diffusion characteristics and controlled release of bacterial fertilizers from modified calcium alginate capsules. <i>Bioresource Technology</i> , 2008, 99, 1904-1910.	9.6	40
477	Cellulosic hydrogen production with a sequencing bacterial hydrolysis and dark fermentation strategy. <i>Bioresource Technology</i> , 2008, 99, 8299-8303.	9.6	83
478	Batch and continuous biohydrogen production from starch hydrolysate by <i>Clostridium</i> species. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1803-1812.	7.1	114
479	Combining enzymatic hydrolysis and dark photo fermentation processes for hydrogen production from starch feedstock: A feasibility study. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5224-5233.	7.1	79
480	Monitoring dark hydrogen fermentation performance of indigenous <i>Clostridium butyricum</i> by hydrogenase gene expression using RT-PCR and qPCR. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4730-4738.	7.1	34
481	Biohydrogen production using sequential two-stage dark and photo fermentation processes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4755-4762.	7.1	216
482	Phenol Degradation and Toxicity Assessment upon Biostimulation to an Indigenous <i>Rhizobium Ralstonia taiwanensis</i> . <i>Biotechnology Progress</i> , 2008, 21, 1085-1092.	2.6	30
483	Enhanced Production of Surfactin from <i>Bacillus subtilis</i> by Addition of Solid Carriers. <i>Biotechnology Progress</i> , 2008, 21, 1329-1334.	2.6	147
484	Localization Effect on the Metal Biosorption Capability of Recombinant Mammalian and Fish Metallothioneins in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2008, 22, 1256-1264.	2.6	6
485	Improved Production of Biosurfactant with Newly Isolated <i>Pseudomonas aeruginosa</i> S2. <i>Biotechnology Progress</i> , 2008, 23, 661-666.	2.6	62
486	Dark H ₂ fermentation from sucrose and xylose using H ₂ -producing indigenous bacteria: Feasibility and kinetic studies. <i>Water Research</i> , 2008, 42, 827-842.	11.3	197

#	ARTICLE	IF	CITATIONS
487	Continuous Biohydrogen Production from Starch with Granulated Mixed Bacterial Microflora. Energy & Fuels, 2008, 22, 93-97.	5.1	34
488	Dark Fermentative Hydrogen Production from Xylose in Different Bioreactors Using Sewage Sludge Microflora. Energy & Fuels, 2008, 22, 113-119.	5.1	50
489	Continuous hydrogen production by anaerobic mixed microflora using a hollow-fiber microfiltration membrane bioreactor. International Journal of Hydrogen Energy, 2007, 32, 950-957.	7.1	85
490	Enhancing phototrophic hydrogen production of Rhodospseudomonas palustris via statistical experimental design. International Journal of Hydrogen Energy, 2007, 32, 940-949.	7.1	77
491	Integration of fermentative hydrogen process and fuel cell for on-line electricity generation. International Journal of Hydrogen Energy, 2007, 32, 802-808.	7.1	50
492	Optimal biostimulation strategy for phenol degradation with indigenous rhizobium Ralstonia taiwanensis. Journal of Hazardous Materials, 2007, 139, 232-237.	12.4	30
493	Use of active consortia of constructed ternary bacterial cultures via mixture design for azo-dye decolorization enhancement. Journal of Hazardous Materials, 2007, 145, 404-409.	12.4	11
494	Batch and continuous fermentative production of hydrogen with anaerobic sludge entrapped in a composite polymeric matrix. Process Biochemistry, 2007, 42, 279-284.	3.7	82
495	Using Taguchi experimental design methods to optimize trace element composition for enhanced surfactin production by Bacillus subtilis ATCC 21332. Process Biochemistry, 2007, 42, 40-45.	3.7	112
496	Biodegradability and mechanical properties of polycaprolactone composites encapsulating phosphate-solubilizing bacterium Bacillus sp. PG01. Process Biochemistry, 2007, 42, 669-675.	3.7	63
497	Simultaneous production of biohydrogen and bioethanol with fluidized-bed and packed-bed bioreactors containing immobilized anaerobic sludge. Process Biochemistry, 2007, 42, 1165-1171.	3.7	99
498	Fermentative production of biofuels with entrapped anaerobic sludge using sequential HRT shifting operation in continuous cultures. Journal of the Taiwan Institute of Chemical Engineers, 2007, 38, 205-213.	1.4	22
499	Dark Hydrogen Fermentation from Hydrolyzed Starch Treated with Recombinant Amylase Originating from <i>Caldimonas taiwanensis</i> On1. Biotechnology Progress, 2007, 23, 1312-1320.	2.6	26
500	Undecylprodigiosin selectively induces apoptosis in human breast carcinoma cells independent of p53. Toxicology and Applied Pharmacology, 2007, 225, 318-328.	2.8	42
501	Quantitative analysis of a high-rate hydrogen-producing microbial community in anaerobic agitated granular sludge bed bioreactors using glucose as substrate. Applied Microbiology and Biotechnology, 2007, 75, 693-701.	3.6	76
502	Repeated pH-stat fed-batch fermentation for rhamnolipid production with indigenous Pseudomonas aeruginosa S2. Applied Microbiology and Biotechnology, 2007, 76, 67-74.	3.6	85
503	Improving PCR and qPCR detection of hydrogenase A (hydA) associated with Clostridia in pure cultures and environmental sludges using bovine serum albumin. Applied Microbiology and Biotechnology, 2007, 77, 645-656.	3.6	26
504	Methods for rapid screening and isolation of bacteria producing acidic lipase: feasibility studies and novel activity assay protocols. World Journal of Microbiology and Biotechnology, 2007, 23, 633-640.	3.6	20

#	ARTICLE	IF	CITATIONS
505	Biological hydrogen production of the genus <i>Clostridium</i> : Metabolic study and mathematical model simulation. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 1728-1735.	7.1	246
506	Hydrogen production by indigenous photosynthetic bacterium <i>Rhodospseudomonas palustris</i> WP3 using optical fiber-illuminating photobioreactors. <i>Biochemical Engineering Journal</i> , 2006, 32, 33-42.	3.6	75
507	An assessment of the toxicity of metals to <i>Pseudomonas aeruginosa</i> PU21 (Rip64). <i>Bioresource Technology</i> , 2006, 97, 1880-1886.	9.6	28
508	Temperature effects on biohydrogen production in a granular sludge bed induced by activated carbon carriers. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 465-472.	7.1	122
509	Improving biohydrogen production in a carrier-induced granular sludge bed by altering physical configuration and agitation pattern of the bioreactor. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1648-1657.	7.1	97
510	Response to comments on: Fermentative hydrogen production with <i>Clostridium butyricum</i> CGS5 isolated from anaerobic sewage sludge (<i>Int J Hydrogen Energy</i> , 2005;30:1063-1070). <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1799-1801.	7.1	9
511	Fermentative hydrogen production with a draft tube fluidized bed reactor containing silicone-gel-immobilized anaerobic sludge. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2200-2210.	7.1	103
512	Fermentative conversion of sucrose and pineapple waste into hydrogen gas in phosphate-buffered culture seeded with municipal sewage sludge. <i>Process Biochemistry</i> , 2006, 41, 1353-1358.	3.7	63
513	Exploring bioaugmentation strategies for azo-dye decolorization using a mixed consortium of <i>Pseudomonas luteola</i> and <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2006, 41, 1574-1581.	3.7	36
514	Enhancing phototropic hydrogen production by solid-carrier assisted fermentation and internal optical-fiber illumination. <i>Process Biochemistry</i> , 2006, 41, 2041-2049.	3.7	94
515	Biosorption of lead, copper and cadmium by an indigenous isolate <i>Enterobacter</i> sp. J1 possessing high heavy-metal resistance. <i>Journal of Hazardous Materials</i> , 2006, 134, 80-86.	12.4	227
516	Mechanism for sludge acidification in aerobic treatment of coking wastewater. <i>Journal of Hazardous Materials</i> , 2006, 137, 1781-1787.	12.4	18
517	Bioreactor design for enhanced carrier-assisted surfactin production with <i>Bacillus subtilis</i> . <i>Process Biochemistry</i> , 2006, 41, 1799-1805.	3.7	119
518	Optimizing lipase production of <i>Burkholderia</i> sp. by response surface methodology. <i>Process Biochemistry</i> , 2006, 41, 1940-1944.	3.7	67
519	Fermentative hydrogen production and bacterial community structure in high-rate anaerobic bioreactors containing silicone-immobilized and self-flocculated sludge. <i>Biotechnology and Bioengineering</i> , 2006, 93, 934-946.	3.3	246
520	Localization Effect on the Metal Biosorption Capability of Recombinant Mammalian and Fish Metallothioneins in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2006, 22, 1256-1264.	2.6	29
521	Immobilized cell fixed-bed bioreactor for wastewater decolorization. <i>Process Biochemistry</i> , 2005, 40, 3434-3440.	3.7	55
522	Biohydrogen production with anaerobic sludge immobilized by ethylene-vinyl acetate copolymer. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 1375-1381.	7.1	90

#	ARTICLE	IF	CITATIONS
523	Rhamnolipid production by indigenous <i>Pseudomonas aeruginosa</i> J4 originating from petrochemical wastewater. <i>Biochemical Engineering Journal</i> , 2005, 27, 146-154.	3.6	238
524	<i>Pseudoxanthomonas kaohsiungensis</i> , sp. nov., a novel bacterium isolated from oil-polluted site produces extracellular surface activity. <i>Systematic and Applied Microbiology</i> , 2005, 28, 137-144.	2.8	44
525	<i>Caldimonas taiwanensis</i> sp. nov., a amylase producing bacterium isolated from a hot spring. <i>Systematic and Applied Microbiology</i> , 2005, 28, 415-420.	2.8	39
526	Identification and Kinetic Characteristics of an Indigenous Diesel-degrading <i>Gordonia alkanivorans</i> Strain. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 1409-1414.	3.6	44
527	Characterization of floating activity of indigenous diesel-assimilating bacterial isolates. <i>Journal of Bioscience and Bioengineering</i> , 2005, 99, 466-472.	2.2	37
528	Optimizing Iron Supplement Strategies for Enhanced Surfactin Production with <i>Bacillus subtilis</i> . <i>Biotechnology Progress</i> , 2004, 20, 979-983.	2.6	69
529	Biosurfactant production by <i>Serratia marcescens</i> SS-1 and its isogenic strain SM1 ⁺ R defective in SpnR, a quorum-sensing LuxR family protein. <i>Biotechnology Letters</i> , 2004, 26, 799-802.	2.2	33
530	Stimulation of bacterial decolorization of an azo dye by extracellular metabolites from <i>Escherichia coli</i> strain NO3. <i>Bioresource Technology</i> , 2004, 91, 243-248.	9.6	119
531	Anaerobic hydrogen production with an efficient carrier-induced granular sludge bed bioreactor. <i>Biotechnology and Bioengineering</i> , 2004, 87, 648-657.	3.3	184
532	Bacterial decolorization of an azo dye with a natural isolate of <i>Pseudomonas luteola</i> and genetically modified <i>Escherichia coli</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1354-1360.	3.2	16
533	Operation strategies for biohydrogen production with a high-rate anaerobic granular sludge bed bioreactor. <i>Enzyme and Microbial Technology</i> , 2004, 35, 605-612.	3.2	94
534	Characterization of phenol and trichloroethene degradation by the rhizobium <i>Ralstonia taiwanensis</i> . <i>Research in Microbiology</i> , 2004, 155, 672-680.	2.1	55
535	H ₂ production with anaerobic sludge using activated-carbon supported packed-bed bioreactors. <i>Biotechnology Letters</i> , 2003, 25, 133-138.	2.2	113
536	Polypeptides for heavy-metal biosorption: capacity and specificity of two heterogeneous MerP proteins. <i>Enzyme and Microbial Technology</i> , 2003, 33, 379-385.	3.2	31
537	Hydrogen Production with Immobilized Sewage Sludge in Three-Phase Fluidized-Bed Bioreactors. <i>Biotechnology Progress</i> , 2003, 19, 828-832.	2.6	130
538	Bacterial Species Diversity and Dye Decolorization of a Two-Species Mixed Consortium. <i>Environmental Engineering Science</i> , 2003, 20, 337-345.	1.6	14
539	Bioprocess Development for Mercury Detoxification and Azo-Dye Decolorization. <i>ACS Symposium Series</i> , 2003, , 159-172.	0.5	0
540	Microbial Hydrogen Production with Immobilized Sewage Sludge. <i>Biotechnology Progress</i> , 2002, 18, 921-926.	2.6	102

#	ARTICLE	IF	CITATIONS
541	Kinetic characteristics of bacterial azo-dye decolorization by <i>Pseudomonas luteola</i> . <i>Water Research</i> , 2001, 35, 2841-2850.	11.3	366
542	Decolorization of azo dyes with immobilized <i>Pseudomonas luteola</i> . <i>Process Biochemistry</i> , 2001, 36, 757-763.	3.7	135
543	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 631-636.	2.2	108
544	Kinetics of bacterial decolorization of azo dye with <i>Escherichia coli</i> NO3. <i>Bioresource Technology</i> , 2000, 75, 107-111.	9.6	155
545	Fed-Batch Bioreactor Strategies for Microbial Decolorization of Azo Dye Using a <i>Pseudomonas luteola</i> Strain. <i>Biotechnology Progress</i> , 2000, 16, 979-985.	2.6	95
546	Azo dye decolorization with a mutant <i>Escherichia coli</i> strain. <i>Biotechnology Letters</i> , 2000, 22, 807-812.	2.2	87
547	Biosorption of Lead, Copper, and Cadmium with Continuous Hollow-Fiber Microfiltration Processes. <i>Separation Science and Technology</i> , 1999, 34, 1607-1627.	2.5	23
548	Detoxification of mercury by immobilized mercuric reductase. <i>Journal of Chemical Technology and Biotechnology</i> , 1999, 74, 965-973.	3.2	11
549	Selective Adsorption/Recovery of Pb, Cu, and Cd with Multiple Fixed Beds Containing Immobilized Bacterial Biomass. <i>Biotechnology Progress</i> , 1998, 14, 735-741.	2.6	46
550	Development of microbial mercury detoxification processes using mercury-hyperresistant strain of <i>Pseudomonas aeruginosa</i> PU21. , 1998, 57, 462-470.		22
551	Repeated fed-batch operations for microbial detoxification of mercury using wild-type and recombinant mercury-resistant bacteria. <i>Journal of Biotechnology</i> , 1998, 64, 219-230.	3.8	19
552	Quantitative Analysis and Equilibrium Models of Selective Adsorption in Multimetal Systems Using a Bacterial Biosorbent. <i>Separation Science and Technology</i> , 1998, 33, 611-632.	2.5	50
553	Removal and recovery of lead fixed-bed biosorption with immobilized bacterial biomass. <i>Water Science and Technology</i> , 1998, 38, 171-178.	2.5	32
554	Biosorption of lead, copper and cadmium by biomass of <i>Pseudomonas aeruginosa</i> PU21. <i>Water Research</i> , 1997, 31, 1651-1658.	11.3	411
555	Biosorption of mercury by the inactivated cells of <i>Pseudomonas aeruginosa</i> PU21 (Rip64). <i>Biotechnology and Bioengineering</i> , 1994, 44, 999-1006.	3.3	116
556	Ultrasonic-assisted ozone oxidation process for sulfamethoxazole removal: impact factors and degradation process. <i>Desalination and Water Treatment</i> , 0, , 1-8.	1.0	4
557	A novel microwave air heater integrated with thermal energy storage. <i>International Journal of Energy Research</i> , 0, , .	4.5	2