

# Jo-Shu Chang

## List of Publications by Year in descending order

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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	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
2	Microalgae biorefinery: High value products perspectives. <i>Bioresource Technology</i> , 2017, 229, 53-62.	9.6	947
3	Effect of light intensity and nitrogen starvation on CO <sub>2</sub> 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
4	Microalgae-based carbohydrates for biofuel production. <i>Biochemical Engineering Journal</i> , 2013, 78, 1-10.	3.6	563
5	Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. <i>Bioresource Technology</i> , 2013, 135, 191-198.	9.6	538
6	Perspectives on microalgal CO <sub>2</sub> -emission mitigation systems – A review. <i>Biotechnology Advances</i> , 2011, 29, 189-198.	11.7	482
7	Bioremediation of heavy metals using microalgae: Recent advances and mechanisms. <i>Bioresource Technology</i> , 2020, 303, 122886.	9.6	458
8	Thermochemical conversion of microalgal biomass into biofuels: A review. <i>Bioresource Technology</i> , 2015, 184, 314-327.	9.6	451
9	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021, 82, 100887.	31.2	429
10	Biosequestration of atmospheric CO <sub>2</sub> and flue gas-containing CO <sub>2</sub> by microalgae. <i>Bioresource Technology</i> , 2015, 184, 190-201.	9.6	417
11	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
12	Microalgae-based biorefinery – From biofuels to natural products. <i>Bioresource Technology</i> , 2013, 135, 166-174.	9.6	406
13	Kinetic characteristics of bacterial azo-dye decolorization by <i>Pseudomonas luteola</i> . <i>Water Research</i> , 2001, 35, 2841-2850.	11.3	366
14	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
15	Conventional and emerging technologies for removal of antibiotics from wastewater. <i>Journal of Hazardous Materials</i> , 2020, 400, 122961.	12.4	358
16	Biosurfactant-enhanced removal of total petroleum hydrocarbons from contaminated soil. <i>Journal of Hazardous Materials</i> , 2009, 167, 609-614.	12.4	341
17	Perspectives on the feasibility of using microalgae for industrial wastewater treatment. <i>Bioresource Technology</i> , 2016, 222, 485-497.	9.6	333
18	Exploring the potential of using algae in cosmetics. <i>Bioresource Technology</i> , 2015, 184, 355-362.	9.6	325

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19	<i>Scenedesmus obliquus</i> CNW-N as a potential candidate for CO <sub>2</sub> mitigation and biodiesel production. <i>Bioresource Technology</i> , 2010, 101, 8725-8730.	9.6	295
20	Heterotrophic cultivation of microalgae for pigment production: A review. <i>Biotechnology Advances</i> , 2018, 36, 54-67.	11.7	282
21	Recent developments on algal biochar production and characterization. <i>Bioresource Technology</i> , 2017, 246, 2-11.	9.6	281
22	Lutein production from biomass: Marigold flowers versus microalgae. <i>Bioresource Technology</i> , 2015, 184, 421-428.	9.6	267
23	Fermentative hydrogen production from wastewaters: A review and prognosis. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15632-15642.	7.1	259
24	Perspectives on engineering strategies for improving biofuel production from microalgae – A critical review. <i>Biotechnology Advances</i> , 2014, 32, 1448-1459.	11.7	258
25	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
26	Manipulating environmental stresses and stress tolerance of microalgae for enhanced production of lipids and value-added products – A review. <i>Bioresource Technology</i> , 2017, 244, 1198-1206.	9.6	250
27	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
28	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
29	Recent insights into biohydrogen production by microalgae – From biophotolysis to dark fermentation. <i>Bioresource Technology</i> , 2017, 227, 373-387.	9.6	241
30	Sustainable approaches for algae utilisation in bioenergy production. <i>Renewable Energy</i> , 2018, 129, 838-852.	8.9	241
31	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
32	Current progress and future prospect of microalgal biomass harvest using various flocculation technologies. <i>Bioresource Technology</i> , 2015, 184, 251-257.	9.6	235
33	New Prospects for Modified Algae in Heavy Metal Adsorption. <i>Trends in Biotechnology</i> , 2019, 37, 1255-1268.	9.3	235
34	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
35	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
36	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

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37	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
38	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , 2017, 19, 44-67.	9.0	216
39	Bioreactor and process design for biohydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8524-8533.	9.6	209
40	Dark H <sub>2</sub> fermentation from sucrose and xylose using H <sub>2</sub> -producing indigenous bacteria: Feasibility and kinetic studies. <i>Water Research</i> , 2008, 42, 827-842.	11.3	197
41	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
42	Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective. <i>Bioresource Technology</i> , 2020, 302, 122817.	9.6	195
43	Microalgal drying and cell disruption “Recent advances. <i>Bioresource Technology</i> , 2015, 184, 258-266.	9.6	192
44	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
45	Decolorization and biodegradation of textile dye Navy blue HER by <i>Trichosporon beigelii</i> NCIM-3326. <i>Journal of Hazardous Materials</i> , 2009, 166, 1421-1428.	12.4	186
46	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
47	Anaerobic hydrogen production with an efficient carrier-induced granular sludge bed bioreactor. <i>Biotechnology and Bioengineering</i> , 2004, 87, 648-657.	3.3	184
48	Biohydrogen production from lignocellulosic feedstock. <i>Bioresource Technology</i> , 2011, 102, 8514-8523.	9.6	182
49	Decolorization and biodegradation of reactive dyes and dye wastewater by a developed bacterial consortium. <i>Biodegradation</i> , 2010, 21, 999-1015.	3.0	179
50	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , 2021, 14, 87.	6.2	176
51	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
52	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
53	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
54	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

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55	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
56	Catalytic effects of potassium on biomass pyrolysis, combustion and torrefaction. <i>Applied Energy</i> , 2019, 235, 346-355.	10.1	170
57	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. <i>Environmental Pollution</i> , 2021, 272, 115986.	7.5	165
58	Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production. <i>Bioresource Technology</i> , 2016, 215, 346-356.	9.6	162
59	Recent Developments on Genetic Engineering of Microalgae for Biofuels and Bio-Based Chemicals. <i>Biotechnology Journal</i> , 2017, 12, 1600644.	3.5	162
60	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2016, 219, 725-737.	9.6	161
61	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
62	Current advances in biological swine wastewater treatment using microalgae-based processes. <i>Bioresource Technology</i> , 2019, 289, 121718.	9.6	158
63	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
64	Cultivation in wastewaters for energy: A microalgae platform. <i>Applied Energy</i> , 2016, 179, 609-625.	10.1	156
65	Kinetics of bacterial decolorization of azo dye with <i>Escherichia coli</i> NO3. <i>Bioresource Technology</i> , 2000, 75, 107-111.	9.6	155
66	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
67	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. <i>Journal of Hazardous Materials</i> , 2021, 402, 123431.	12.4	151
68	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
69	Impact of torrefaction on the composition, structure and reactivity of a microalga residue. <i>Applied Energy</i> , 2016, 181, 110-119.	10.1	149
70	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
71	Dewatering and Drying Methods for Microalgae. <i>Drying Technology</i> , 2015, 33, 443-454.	3.1	147
72	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

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73	Microalgae from wastewater treatment to biochar – Feedstock preparation and conversion technologies. <i>Energy Conversion and Management</i> , 2017, 150, 1-13.	9.2	144
74	Potential biomedical applications of marine algae. <i>Bioresource Technology</i> , 2017, 244, 1407-1415.	9.6	142
75	Biobutanol production from agricultural waste by an acclimated mixed bacterial microflora. <i>Applied Energy</i> , 2012, 100, 3-9.	10.1	141
76	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
77	Microalgae as sustainable food and feed sources for animals and humans – Biotechnological and environmental aspects. <i>Chemosphere</i> , 2021, 271, 129800.	8.2	136
78	Decolorization of azo dyes with immobilized <i>Pseudomonas luteola</i> . <i>Process Biochemistry</i> , 2001, 36, 757-763.	3.7	135
79	Thermal decomposition dynamics and severity of microalgae residues in torrefaction. <i>Bioresource Technology</i> , 2014, 169, 258-264.	9.6	135
80	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
81	CO <sub>2</sub> , NO <sub>x</sub> and SO <sub>x</sub> removal from flue gas via microalgae cultivation: A critical review. <i>Biotechnology Journal</i> , 2015, 10, 829-839.	3.5	132
82	Microalgae – microbial fuel cell: A mini review. <i>Bioresource Technology</i> , 2015, 198, 891-895.	9.6	132
83	Hydrogen Production with Immobilized Sewage Sludge in Three-Phase Fluidized-Bed Bioreactors. <i>Biotechnology Progress</i> , 2003, 19, 828-832.	2.6	130
84	Extraction of polysaccharides from edible mushrooms: Emerging technologies and recent advances. <i>Carbohydrate Polymers</i> , 2021, 251, 117006.	10.2	127
85	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
86	Bioprocess development on microalgae-based CO <sub>2</sub> fixation and bioethanol production using <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2013, 145, 142-149.	9.6	125
87	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
88	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
89	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
90	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

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91	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
92	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
93	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
94	Bioreactor design for enhanced carrier-assisted surfactin production with <i>Bacillus subtilis</i> . <i>Process Biochemistry</i> , 2006, 41, 1799-1805.	3.7	119
95	Algal biomass dehydration. <i>Bioresource Technology</i> , 2013, 135, 720-729.	9.6	119
96	Waste biorefineries “integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , 2018, 50, 101-110.	6.6	119
97	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
98	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
99	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
100	Genetic engineering of microalgae for enhanced biorefinery capabilities. <i>Biotechnology Advances</i> , 2020, 43, 107554.	11.7	117
101	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
102	Supercritical fluid extraction of valuable compounds from microalgal biomass. <i>Bioresource Technology</i> , 2015, 184, 291-296.	9.6	116
103	Engineering strategies for simultaneous enhancement of C-phycocyanin production and CO <sub>2</sub> fixation with <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , 2013, 145, 307-312.	9.6	115
104	Recent insights into continuous-flow biodiesel production via catalytic and non-catalytic transesterification processes. <i>Applied Energy</i> , 2017, 185, 376-409.	10.1	115
105	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
106	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
107	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
108	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

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109	Bio-processing of algal bio-refinery: a review on current advances and future perspectives. <i>Bioengineered</i> , 2019, 10, 574-592.	3.2	114
110	H <sub>2</sub> production with anaerobic sludge using activated-carbon supported packed-bed bioreactors. <i>Biotechnology Letters</i> , 2003, 25, 133-138.	2.2	113
111	A Holistic Approach to Managing Microalgae for Biofuel Applications. <i>International Journal of Molecular Sciences</i> , 2017, 18, 215.	4.1	113
112	Using Taguchi experimental design methods to optimize trace element composition for enhanced surfactin production by <i>Bacillus subtilis</i> ATCC 21332. <i>Process Biochemistry</i> , 2007, 42, 40-45.	3.7	112
113	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
114	Hygroscopic transformation of woody biomass torrefaction for carbon storage. <i>Applied Energy</i> , 2018, 231, 768-776.	10.1	111
115	Biological butanol production from microalgae-based biodiesel residues by <i>Clostridium acetobutylicum</i> . <i>Bioresource Technology</i> , 2015, 184, 379-385.	9.6	110
116	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
117	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 631-636.	2.2	108
118	Engineering strategies for improving the CO <sub>2</sub> 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
119	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
120	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
121	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
122	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
123	Wet torrefaction of microalga <i>Chlorella vulgaris</i> ESP-31 with microwave-assisted heating. <i>Energy Conversion and Management</i> , 2017, 141, 163-170.	9.2	103
124	Microbial Hydrogen Production with Immobilized Sewage Sludge. <i>Biotechnology Progress</i> , 2002, 18, 921-926.	2.6	102
125	Optimizing biodiesel production in marine <i>Chlamydomonas</i> JSC4 through metabolic profiling and an innovative salinity-gradient strategy. <i>Biotechnology for Biofuels</i> , 2014, 7, 97.	6.2	101
126	Torrefaction operation and optimization of microalga residue for energy densification and utilization. <i>Applied Energy</i> , 2015, 154, 622-630.	10.1	101



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127	Simultaneous microalgal biomass production and CO <sub>2</sub> 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
128	Enhancing bio-butanol production from biomass of <i>Chlorella vulgaris</i> JSC-6 with sequential alkali pretreatment and acid hydrolysis. <i>Bioresource Technology</i> , 2016, 200, 557-564.	9.6	101
129	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
130	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
131	Pretreatment of microalgal biomass for efficient biohydrogen production – Recent insights and future perspectives. <i>Bioresource Technology</i> , 2020, 302, 122871.	9.6	100
132	Simultaneous production of biohydrogen and bioethanol with fluidized-bed and packed-bed bioreactors containing immobilized anaerobic sludge. <i>Process Biochemistry</i> , 2007, 42, 1165-1171.	3.7	99
133	Perspectives on cultivation strategies and photobioreactor designs for photo-fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8484-8492.	9.6	98
134	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
135	Current advances on fermentative biobutanol production using third generation feedstock. <i>Biotechnology Advances</i> , 2017, 35, 1049-1059.	11.7	98
136	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
137	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
138	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
139	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
140	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
141	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
142	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
143	Removal of antimony (Sb(V)) from Sb mine drainage: Biological sulfate reduction and sulfide oxidation – precipitation. <i>Bioresource Technology</i> , 2013, 146, 799-802.	9.6	92
144	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

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145	Novel approaches of producing bioenergies from microalgae: A recent review. <i>Biotechnology Advances</i> , 2015, 33, 1219-1227.	11.7	92
146	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
147	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
148	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
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