

Shih-Hsin Ho

List of Publications by Year in descending order

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247
papers

20,000
citations

7069

78
h-index

14156

128
g-index

249
all docs

249
docs citations

249
times ranked

14546
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.8	645
2	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , 2021, 296, 126589.	4.6	628
3	Microalgae-based carbohydrates for biofuel production. <i>Biochemical Engineering Journal</i> , 2013, 78, 1-10.	1.8	563
4	Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. <i>Bioresource Technology</i> , 2013, 135, 191-198.	4.8	538
5	Perspectives on microalgal CO ₂ -emission mitigation systems – A review. <i>Biotechnology Advances</i> , 2011, 29, 189-198.	6.0	482
6	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021, 82, 100887.	15.8	429
7	Microalgae-based biorefinery – From biofuels to natural products. <i>Bioresource Technology</i> , 2013, 135, 166-174.	4.8	406
8	Activation of peroxymonosulfate/persulfate by nanomaterials for sulfate radical-based advanced oxidation technologies. <i>Current Opinion in Chemical Engineering</i> , 2018, 19, 51-58.	3.8	352
9	N-doped graphitic biochars from C-phycoyanin extracted <i>Spirulina</i> residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. <i>Water Research</i> , 2019, 159, 77-86.	5.3	347
10	Perspectives on the feasibility of using microalgae for industrial wastewater treatment. <i>Bioresource Technology</i> , 2016, 222, 485-497.	4.8	333
11	Mechanistic insight into reactivity of sulfate radical with aromatic contaminants through single-electron transfer pathway. <i>Chemical Engineering Journal</i> , 2017, 327, 1056-1065.	6.6	296
12	<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.	4.8	295
13	Perspectives on engineering strategies for improving biofuel production from microalgae – A critical review. <i>Biotechnology Advances</i> , 2014, 32, 1448-1459.	6.0	258
14	Current progress and future prospect of microalgal biomass harvest using various flocculation technologies. <i>Bioresource Technology</i> , 2015, 184, 251-257.	4.8	235
15	Multifaceted roles of microalgae in the application of wastewater biotreatment: A review. <i>Environmental Pollution</i> , 2021, 269, 116236.	3.7	231
16	A review on microalgae cultivation and harvesting, and their biomass extraction processing using ionic liquids. <i>Bioengineered</i> , 2020, 11, 116-129.	1.4	229
17	Potential utilization of bioproducts from microalgae for the quality enhancement of natural products. <i>Bioresource Technology</i> , 2020, 304, 122997.	4.8	224
18	High-efficiency removal of lead from wastewater by biochar derived from anaerobic digestion sludge. <i>Bioresource Technology</i> , 2017, 246, 142-149.	4.8	216

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19	Progress and challenges in photocatalytic disinfection of waterborne Viruses: A review to fill current knowledge gaps. <i>Chemical Engineering Journal</i> , 2019, 355, 399-415.	6.6	207
20	Highly efficient adsorption of dyes by biochar derived from pigments-extracted macroalgae pyrolyzed at different temperature. <i>Bioresource Technology</i> , 2018, 259, 104-110.	4.8	205
21	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.	4.8	195
22	Modeling and fault diagnosis of a photovoltaic system. <i>Electric Power Systems Research</i> , 2008, 78, 97-105.	2.1	190
23	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , 2020, 187, 116390.	5.3	180
24	Magnetic Nanoscale Zerovalent Iron Assisted Biochar: Interfacial Chemical Behaviors and Heavy Metals Remediation Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9673-9682.	3.2	176
25	Torrefaction performance and energy usage of biomass wastes and their correlations with torrefaction severity index. <i>Applied Energy</i> , 2018, 220, 598-604.	5.1	175
26	Characterization and optimization of carbohydrate production from an indigenous microalga <i>Chlorella vulgaris</i> FSP-E. <i>Bioresource Technology</i> , 2013, 135, 157-165.	4.8	171
27	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.	4.8	171
28	Enhanced hexavalent chromium removal performance and stabilization by magnetic iron nanoparticles assisted biochar in aqueous solution: Mechanisms and application potential. <i>Chemosphere</i> , 2018, 207, 50-59.	4.2	164
29	Biological remediation of acid mine drainage: Review of past trends and current outlook. <i>Environmental Science and Ecotechnology</i> , 2020, 2, 100024.	6.7	162
30	Advanced oxidation processes for water disinfection: Features, mechanisms and prospects. <i>Chemical Engineering Journal</i> , 2021, 409, 128207.	6.6	162
31	Revealing the role of adsorption in ciprofloxacin and sulfadiazine elimination routes in microalgae. <i>Water Research</i> , 2020, 172, 115475.	5.3	158
32	Plasmonic-based nanomaterials for environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 721-741.	10.8	146
33	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. <i>Bioresource Technology</i> , 2017, 244, 1456-1464.	4.8	144
34	Anisotropic plasmonic nanostructures for colorimetric sensing. <i>Nano Today</i> , 2020, 32, 100855.	6.2	143
35	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.	4.8	138
36	Recent advances in nanoscale-metal assisted biochar derived from waste biomass used for heavy metals removal. <i>Bioresource Technology</i> , 2017, 246, 123-134.	4.8	134

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37	Technologies towards antibiotic resistance genes (ARGs) removal from aquatic environment: A critical review. <i>Journal of Hazardous Materials</i> , 2021, 411, 125148.	6.5	134
38	CO ₂ , NO _x and SO _x removal from flue gas via microalgae cultivation: A critical review. <i>Biotechnology Journal</i> , 2015, 10, 829-839.	1.8	132
39	Understanding Mechanisms of Synergy between Acidification and Ultrasound Treatments for Activated Sludge Dewatering: From Bench to Pilot-Scale Investigation. <i>Environmental Science & Technology</i> , 2018, 52, 4313-4323.	4.6	126
40	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.	4.8	125
41	Phototrophic cultivation of a thermo-tolerant <i>Scenedesmus</i> sp. for lutein production: Effects of nitrate concentration, light intensity and fed-batch operation. <i>Bioresource Technology</i> , 2013, 144, 435-444.	4.8	124
42	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.	1.6	121
43	Cultivating <i>Chlorella sorokiniana</i> AK-1 with swine wastewater for simultaneous wastewater treatment and algal biomass production. <i>Bioresource Technology</i> , 2020, 302, 122814.	4.8	120
44	Waste biorefineries – integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , 2018, 50, 101-110.	3.3	119
45	Inactivation of pathogenic microorganisms by sulfate radical: Present and future. <i>Chemical Engineering Journal</i> , 2019, 371, 222-232.	6.6	118
46	Mechanistic insight into degradation of endocrine disrupting chemical by hydroxyl radical: An experimental and theoretical approach. <i>Environmental Pollution</i> , 2017, 231, 1446-1452.	3.7	117
47	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117795.	10.8	117
48	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.	4.8	114
49	Microalgal-biochar immobilized complex: A novel efficient biosorbent for cadmium removal from aqueous solution. <i>Bioresource Technology</i> , 2017, 244, 1031-1038.	4.8	110
50	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.	4.8	108
51	Role of biochar surface characteristics in the adsorption of aromatic compounds: Pore structure and functional groups. <i>Chinese Chemical Letters</i> , 2021, 32, 2939-2946.	4.8	107
52	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111852.	8.2	107
53	Graphitic biochar catalysts from anaerobic digestion sludge for nonradical degradation of micropollutants and disinfection. <i>Chemical Engineering Journal</i> , 2020, 384, 123244.	6.6	105
54	Progress and perspective on algal plastics – A critical review. <i>Bioresource Technology</i> , 2019, 289, 121700.	4.8	102

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55	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
56	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.	4.8	101
57	Combination of tumour-infarction therapy and chemotherapy via the co-delivery of doxorubicin and thrombin encapsulated in tumour-targeted nanoparticles. <i>Nature Biomedical Engineering</i> , 2020, 4, 732-742.	11.6	99
58	Current advances on fermentative biobutanol production using third generation feedstock. <i>Biotechnology Advances</i> , 2017, 35, 1049-1059.	6.0	98
59	Natural sponge-like wood-derived aerogel for solar-assisted adsorption and recovery of high-viscous crude oil. <i>Chemical Engineering Journal</i> , 2020, 400, 125865.	6.6	96
60	Nonradical oxidation in persulfate activation by graphene-like nanosheets (GNS): Differentiating the contributions of singlet oxygen (1O_2) and sorption-dependent electron transfer. <i>Chemical Engineering Journal</i> , 2020, 393, 124725.	6.6	94
61	Engineering and modeling perspectives on photocatalytic reactors for water treatment. <i>Water Research</i> , 2021, 202, 117421.	5.3	94
62	Converting nitrogen and phosphorus wastewater into bioenergy using microalgae-bacteria consortia: A critical review. <i>Bioresource Technology</i> , 2021, 342, 126056.	4.8	94
63	Oxidative torrefaction of biomass nutshells: Evaluations of energy efficiency as well as biochar transportation and storage. <i>Applied Energy</i> , 2019, 235, 428-441.	5.1	93
64	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.	1.8	92
65	Revolutions in algal biochar for different applications: State-of-the-art techniques and future scenarios. <i>Chinese Chemical Letters</i> , 2020, 31, 2591-2602.	4.8	91
66	Microalgae as a solution of third world energy crisis for biofuels production from wastewater toward carbon neutrality: An updated review. <i>Chemosphere</i> , 2022, 291, 132863.	4.2	89
67	Algae-mediated antibiotic wastewater treatment: A critical review. <i>Environmental Science and Ecotechnology</i> , 2022, 9, 100145.	6.7	89
68	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , 2021, 19, 2891-2904.	8.3	87
69	Polyethylenimine-modified chitosan materials for the recovery of La(III) from leachates of bauxite residue. <i>Chemical Engineering Journal</i> , 2020, 388, 124307.	6.6	86
70	Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications. <i>Environmental Research</i> , 2022, 204, 111966.	3.7	86
71	Dispersed ozone flotation of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2010, 101, 9092-9096.	4.8	85
72	Establishment of an efficient genetic transformation system in <i>Scenedesmus obliquus</i> . <i>Journal of Biotechnology</i> , 2013, 163, 61-68.	1.9	85

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73	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
74	Improving dewaterability and filterability of waste activated sludge by electrochemical Fenton pretreatment. <i>Chemical Engineering Journal</i> , 2019, 362, 525-536.	6.6	85
75	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. <i>Nano-Micro Letters</i> , 2018, 10, 4.	14.4	84
76	Electrophilicity index as a critical indicator for the biodegradation of the pharmaceuticals in aerobic activated sludge processes. <i>Water Research</i> , 2019, 160, 10-17.	5.3	84
77	Mechanistic Study on the Role of Soluble Microbial Products in Sulfate Radical-Mediated Degradation of Pharmaceuticals. <i>Environmental Science & Technology</i> , 2019, 53, 342-353.	4.6	83
78	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.	4.8	82
79	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.	4.8	81
80	Biohydrogen production from microalgae for environmental sustainability. <i>Chemosphere</i> , 2022, 291, 132717.	4.2	81
81	Harvesting of <i>Scenedesmus obliquus</i> FSP-3 using dispersed ozone flotation. <i>Bioresource Technology</i> , 2011, 102, 82-87.	4.8	80
82	Generation of high-efficient biochar for dye adsorption using frass of yellow mealworms (larvae of) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> Production, 2019, 227, 33-47.	4.6	78
83	Sustainable biochar as an electrocatalysts for the oxygen reduction reaction in microbial fuel cells. <i>Green Energy and Environment</i> , 2021, 6, 644-659.	4.7	77
84	Magnetic biochar catalysts from anaerobic digested sludge: Production, application and environment impact. <i>Environment International</i> , 2019, 126, 302-308.	4.8	76
85	Characterization of biomass waste torrefaction under conventional and microwave heating. <i>Bioresource Technology</i> , 2018, 264, 7-16.	4.8	75
86	Adsorption behavior of Cr(VI) by magnetically modified <i>Enteromorpha prolifera</i> based biochar and the toxicity analysis. <i>Journal of Hazardous Materials</i> , 2020, 395, 122658.	6.5	75
87	Photoelectrochemical cell for simultaneous electricity generation and heavy metals recovery from wastewater. <i>Journal of Hazardous Materials</i> , 2017, 323, 681-689.	6.5	72
88	Optimizing real swine wastewater treatment efficiency and carbohydrate productivity of newly microalga <i>Chlamydomonas</i> sp. QWY37 used for cell-displayed bioethanol production. <i>Bioresource Technology</i> , 2020, 305, 123072.	4.8	70
89	CO ₂ mitigation and phycoremediation of industrial flue gas and wastewater via microalgae-bacteria consortium: Possibilities and challenges. <i>Chemical Engineering Journal</i> , 2021, 425, 131436.	6.6	70
90	Characterization of photosynthetic carbon dioxide fixation ability of indigenous <i>Scenedesmus obliquus</i> isolates. <i>Biochemical Engineering Journal</i> , 2010, 53, 57-62.	1.8	69

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91	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23904-23913.	5.2	67
92	Enhanced wood-derived photothermal evaporation system by in-situ incorporated lignin carbon quantum dots. <i>Chemical Engineering Journal</i> , 2021, 405, 126703.	6.6	66
93	Biotransformation of sulfamethoxazole by microalgae: Removal efficiency, pathways, and mechanisms. <i>Water Research</i> , 2022, 221, 118834.	5.3	66
94	Dually Prewetted Underwater Superoleophobic and under Oil Superhydrophobic Fabric for Successive Separation of Light Oil/Water/Heavy Oil Three-Phase Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36368-36376.	4.0	65
95	Enhancing cell growth and lutein productivity of <i>Desmodesmus</i> sp. F51 by optimal utilization of inorganic carbon sources and ammonium salt. <i>Bioresource Technology</i> , 2017, 244, 664-671.	4.8	65
96	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.	4.8	63
97	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. <i>Biotechnology for Biofuels</i> , 2017, 10, 27.	6.2	63
98	Elucidating sulfate radical-mediated disinfection profiles and mechanisms of <i>Escherichia coli</i> and <i>Enterococcus faecalis</i> in municipal wastewater. <i>Water Research</i> , 2020, 173, 115552.	5.3	63
99	Sorption of ionized dyes on high-salinity microalgal residue derived biochar: Electron acceptor-donor and metal-organic bridging mechanisms. <i>Journal of Hazardous Materials</i> , 2020, 393, 122435.	6.5	62
100	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.	4.8	61
101	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
102	A novel clean production approach to utilize crop waste residues as co-diet for mealworm (<i>Tenebrio</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Pollution, 2019, 252, 1142-1153.	3.7	61
103	Comparison and characterization of property variation of microalgal biomass with non-oxidative and oxidative torrefaction. <i>Fuel</i> , 2019, 246, 375-385.	3.4	61
104	Nanostructured manganese oxides: natural/artificial formation and their induced catalysis for wastewater remediation. <i>Environmental Science: Nano</i> , 2020, 7, 368-396.	2.2	61
105	Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass. <i>Chemosphere</i> , 2021, 281, 130886.	4.2	61
106	Recent advances in yeast cell-surface display technologies for waste biorefineries. <i>Bioresource Technology</i> , 2016, 215, 324-333.	4.8	60
107	Dual purpose microalgae-based biorefinery for treating pharmaceuticals and personal care products (PPCPs) residues and biodiesel production. <i>Science of the Total Environment</i> , 2019, 688, 253-261.	3.9	60
108	Enhancing cadmium bioremediation by a complex of water-hyacinth derived pellets immobilized with <i>Chlorella</i> sp.. <i>Bioresource Technology</i> , 2018, 257, 157-163.	4.8	58

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109	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.	4.8	58
110	Insights into the microalgae-bacteria consortia treating swine wastewater: Symbiotic mechanism and resistance genes analysis. <i>Bioresource Technology</i> , 2022, 349, 126892.	4.8	58
111	Production and optimization of high grade cellulase from waste date seeds by <i>Cellulomonas uda</i> NCIM 2353 for biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22260-22270.	3.8	57
112	Microalgal Torrefaction for Solid Biofuel Production. <i>Trends in Biotechnology</i> , 2020, 38, 1023-1033.	4.9	57
113	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.	1.8	56
114	Combined cell-surface display- and secretion-based strategies for production of cellulosic ethanol with <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2015, 8, 162.	6.2	56
115	Application of biodegradable cellulose-based biomass materials in wastewater treatment. <i>Environmental Pollution</i> , 2021, 290, 118087.	3.7	56
116	Kinetics and mechanisms of the formation of chlorinated and oxygenated polycyclic aromatic hydrocarbons during chlorination. <i>Chemical Engineering Journal</i> , 2018, 351, 248-257.	6.6	54
117	Recent advances on food waste pretreatment technology via microalgae for source of polyhydroxyalkanoates. <i>Journal of Environmental Management</i> , 2021, 293, 112782.	3.8	54
118	Unraveling the effects of arbuscular mycorrhizal fungus on uptake, translocation, and distribution of cadmium in <i>Phragmites australis</i> (Cav.) Trin. ex Steud. <i>Ecotoxicology and Environmental Safety</i> , 2018, 149, 43-50.	2.9	53
119	Enhanced Directional Seawater Desalination Using a Structure-Guided Wood Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22387-22397.	4.0	53
120	Permeabilization of <i>Haematococcus pluvialis</i> and solid-liquid extraction of astaxanthin by CO ₂ -based alkyl carbamate ionic liquids. <i>Chemical Engineering Journal</i> , 2021, 411, 128510.	6.6	53
121	Quantitation of protein phosphorylation in pregnant rat uteri using stable isotope dimethyl labeling coupled with IMAC. <i>Proteomics</i> , 2006, 6, 1722-1734.	1.3	52
122	Mechanism and experimental study on the photocatalytic performance of Ag/AgCl @ chiral TiO ₂ nanofibers photocatalyst: The impact of wastewater components. <i>Journal of Hazardous Materials</i> , 2015, 285, 277-284.	6.5	52
123	Optimizing real swine wastewater treatment with maximum carbohydrate production by a newly isolated indigenous microalga <i>Parachlorella kessleri</i> QWY28. <i>Bioresource Technology</i> , 2019, 289, 121702.	4.8	52
124	Recent advances in hydrogen production by thermo-catalytic conversion of biomass. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14266-14278.	3.8	52
125	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.	4.8	51
126	Converting oils high in phospholipids to biodiesel using immobilized <i>Aspergillus oryzae</i> whole-cell biocatalysts expressing <i>Fusarium heterosporum</i> lipase. <i>Biochemical Engineering Journal</i> , 2016, 105, 10-15.	1.8	51

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127	Enhancing lutein productivity of <i>Chlamydomonas</i> sp. via high-intensity light exposure with corresponding carotenogenic genes expression profiles. <i>Bioresource Technology</i> , 2019, 275, 416-420.	4.8	51
128	How does ionic liquid play a role in sustainability of biomass processing?. <i>Journal of Cleaner Production</i> , 2021, 284, 124772.	4.6	51
129	New concept in swine wastewater treatment: development of a self-sustaining synergetic microalgae-bacteria symbiosis (ABS) system to achieve environmental sustainability. <i>Journal of Hazardous Materials</i> , 2021, 418, 126264.	6.5	51
130	Bioconversion of mature landfill leachate into biohydrogen and volatile fatty acids via microalgal photosynthesis together with dark fermentation. <i>Energy Conversion and Management</i> , 2022, 252, 115035.	4.4	51
131	Effects of nitrogen source availability and bioreactor operating strategies on lutein production with <i>Scenedesmus obliquus</i> FSP-3. <i>Bioresource Technology</i> , 2015, 184, 131-138.	4.8	50
132	Lipase cocktail for efficient conversion of oils containing phospholipids to biodiesel. <i>Bioresource Technology</i> , 2016, 211, 224-230.	4.8	50
133	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.	4.8	50
134	Ag/AgCl@helical chiral TiO ₂ nanofibers as a visible-light driven plasmon photocatalyst. <i>Chemical Communications</i> , 2013, 49, 10367-10369.	2.2	49
135	Effect of plant species compositions on performance of lab-scale constructed wetland through investigating photosynthesis and microbial communities. <i>Bioresource Technology</i> , 2017, 229, 196-203.	4.8	49
136	Tailoring a novel hierarchical cheese-like porous biochar from algae residue to boost sulfathiazole removal. <i>Environmental Science and Ecotechnology</i> , 2022, 10, 100168.	6.7	49
137	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.	4.8	48
138	Engineering of a novel cellulose-adherent cellulolytic <i>Saccharomyces cerevisiae</i> for cellulosic biofuel production. <i>Scientific Reports</i> , 2016, 6, 24550.	1.6	48
139	A dually pretreated membrane for continuous filtration of water-in-light oil, oil-in-water, and water-in-heavy oil multiphase emulsion mixtures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11305-11313.	5.2	47
140	Smart microalgae farming with internet-of-things for sustainable agriculture. <i>Biotechnology Advances</i> , 2022, 57, 107931.	6.0	47
141	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.	2.7	45
142	A sustainable solution to plastics pollution: An eco-friendly bioplastic film production from high-salt contained <i>Spirulina</i> sp. residues. <i>Journal of Hazardous Materials</i> , 2020, 388, 121773.	6.5	45
143	Improvement of ethanol production from crystalline cellulose via optimizing cellulase ratios in cellulolytic <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 1201-1207.	1.7	44
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