

Shih-Hsin Ho

List of Publications by Citations

Source: <https://exaly.com/author-pdf/89767/shih-hsin-ho-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

241
papers

12,235
citations

59
h-index

101
g-index

249
ext. papers

16,073
ext. citations

9.5
avg, IF

7.22
L-index

#	Paper	IF	Citations
241	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, 244-52	11	550
240	Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. <i>Bioresource Technology</i> , 2013 , 135, 191-8	11	462
239	Microalgae-based carbohydrates for biofuel production. <i>Biochemical Engineering Journal</i> , 2013 , 78, 1-10	4.2	458
238	Perspectives on microalgal CO ₂ emission mitigation systems--a review. <i>Biotechnology Advances</i> , 2011 , 29, 189-98	17.8	411
237	Microalgae-based biorefinery--from biofuels to natural products. <i>Bioresource Technology</i> , 2013 , 135, 166-74	11	335
236	<i>Scenedesmus obliquus</i> CNW-N as a potential candidate for CO ₂ mitigation and biodiesel production. <i>Bioresource Technology</i> , 2010 , 101, 8725-30	11	249
235	Perspectives on the feasibility of using microalgae for industrial wastewater treatment. <i>Bioresource Technology</i> , 2016 , 222, 485-497	11	233
234	Activation of peroxymonosulfate/persulfate by nanomaterials for sulfate radical-based advanced oxidation technologies. <i>Current Opinion in Chemical Engineering</i> , 2018 , 19, 51-58	5.4	224
233	Perspectives on engineering strategies for improving biofuel production from microalgae--a critical review. <i>Biotechnology Advances</i> , 2014 , 32, 1448-59	17.8	220
232	Current progress and future prospect of microalgal biomass harvest using various flocculation technologies. <i>Bioresource Technology</i> , 2015 , 184, 251-257	11	186
231	Mechanistic insight into reactivity of sulfate radical with aromatic contaminants through single-electron transfer pathway. <i>Chemical Engineering Journal</i> , 2017 , 327, 1056-1065	14.7	183
230	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	12.5	175
229	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , 2021 , 296, 126589	10.3	166
228	Modeling and fault diagnosis of a photovoltaic system. <i>Electric Power Systems Research</i> , 2008 , 78, 97-105	5.5	152
227	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, 619-25	11	148
226	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021 , 82, 100887	33.6	147
225	High-efficiency removal of lead from wastewater by biochar derived from anaerobic digestion sludge. <i>Bioresource Technology</i> , 2017 , 246, 142-149	11	145

224	Characterization and optimization of carbohydrate production from an indigenous microalga <i>Chlorella vulgaris</i> FSP-E. <i>Bioresource Technology</i> , 2013 , 135, 157-65	11	144
223	Potential utilization of bioproducts from microalgae for the quality enhancement of natural products. <i>Bioresource Technology</i> , 2020 , 304, 122997	11	134
222	Highly efficient adsorption of dyes by biochar derived from pigments-extracted macroalgae pyrolyzed at different temperature. <i>Bioresource Technology</i> , 2018 , 259, 104-110	11	131
221	Enhancing lutein productivity of an indigenous microalga <i>Scenedesmus obliquus</i> FSP-3 using light-related strategies. <i>Bioresource Technology</i> , 2014 , 152, 275-82	11	129
220	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	14.7	123
219	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	8.3	121
218	Torrefaction performance and energy usage of biomass wastes and their correlations with torrefaction severity index. <i>Applied Energy</i> , 2018 , 220, 598-604	10.7	112
217	Plasmonic-based nanomaterials for environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 721-741	21.8	106
216	Bioprocess development on microalgae-based CO ₂ fixation and bioethanol production using <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2013 , 145, 142-9	11	106
215	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	8.4	105
214	Multifaceted roles of microalgae in the application of wastewater biotreatment: A review. <i>Environmental Pollution</i> , 2021 , 269, 116236	9.3	105
213	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	11	99
212	Recent advances in nanoscale-metal assisted biochar derived from waste biomass used for heavy metals removal. <i>Bioresource Technology</i> , 2017 , 246, 123-134	11	97
211	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, 435-44 ¹¹		94
210	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, 285-9	11	94
209	Waste biorefineries - integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 101-110	11.4	94
208	Mechanistic insight into degradation of endocrine disrupting chemical by hydroxyl radical: An experimental and theoretical approach. <i>Environmental Pollution</i> , 2017 , 231, 1446-1452	9.3	93
207	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, 163-71	11	92

206	A review on microalgae cultivation and harvesting, and their biomass extraction processing using ionic liquids. <i>Bioengineered</i> , 2020 , 11, 116-129	5.7	92
205	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	4.9	90
204	CO ₂ , NO _x and SO _x removal from flue gas via microalgae cultivation: a critical review. <i>Biotechnology Journal</i> , 2015 , 10, 829-39	5.6	90
203	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. <i>Bioresource Technology</i> , 2017 , 244, 1456-1464	11	89
202	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	7.8	89
201	Current advances on fermentative biobutanol production using third generation feedstock. <i>Biotechnology Advances</i> , 2017 , 35, 1049-1059	17.8	80
200	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, 557-64	11	79
199	Dispersed ozone flotation of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2010 , 101, 9092-6	11	79
198	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	10.3	77
197	Establishment of an efficient genetic transformation system in <i>Scenedesmus obliquus</i> . <i>Journal of Biotechnology</i> , 2013 , 163, 61-8	3.7	76
196	Harvesting of <i>Scenedesmus obliquus</i> FSP-3 using dispersed ozone flotation. <i>Bioresource Technology</i> , 2011 , 102, 82-7	11	75
195	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	4.2	73
194	Microalgal-biochar immobilized complex: A novel efficient biosorbent for cadmium removal from aqueous solution. <i>Bioresource Technology</i> , 2017 , 244, 1031-1038	11	72
193	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , 2020 , 187, 116390	12.5	70
192	Development of lipid productivities under different CO ₂ conditions of marine microalgae <i>Chlamydomonas</i> sp. JSC4. <i>Bioresource Technology</i> , 2014 , 152, 247-52	11	69
191	Revealing the role of adsorption in ciprofloxacin and sulfadiazine elimination routes in microalgae. <i>Water Research</i> , 2020 , 172, 115475	12.5	68
190	Inactivation of pathogenic microorganisms by sulfate radical: Present and future. <i>Chemical Engineering Journal</i> , 2019 , 371, 222-232	14.7	66
189	Biological remediation of acid mine drainage: Review of past trends and current outlook. <i>Environmental Science and Ecotechnology</i> , 2020 , 2, 100024	7.4	66

188	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	11	64
187	Progress and perspective on algal plastics - A critical review. <i>Bioresource Technology</i> , 2019 , 289, 121700	11	63
186	Characterization of photosynthetic carbon dioxide fixation ability of indigenous <i>Scenedesmus obliquus</i> isolates. <i>Biochemical Engineering Journal</i> , 2010 , 53, 57-62	4.2	63
185	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117795	21.8	62
184	Anisotropic plasmonic nanostructures for colorimetric sensing. <i>Nano Today</i> , 2020 , 32, 100855	17.9	60
183	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	7.8	60
182	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	11	59
181	Photoelectrochemical cell for simultaneous electricity generation and heavy metals recovery from wastewater. <i>Journal of Hazardous Materials</i> , 2017 , 323, 681-689	12.8	58
180	Oxidative torrefaction of biomass nutshells: Evaluations of energy efficiency as well as biochar transportation and storage. <i>Applied Energy</i> , 2019 , 235, 428-441	10.7	58
179	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	10.3	58
178	Graphitic biochar catalysts from anaerobic digestion sludge for nonradical degradation of micropollutants and disinfection. <i>Chemical Engineering Journal</i> , 2020 , 384, 123244	14.7	58
177	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	9.5	57
176	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	12.5	57
175	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. <i>Nano-Micro Letters</i> , 2018 , 10, 4	19.5	55
174	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, 108-16	11	53
173	Advanced oxidation processes for water disinfection: Features, mechanisms and prospects. <i>Chemical Engineering Journal</i> , 2021 , 409, 128207	14.7	53
172	Exploring the high lipid production potential of a thermotolerant microalga using statistical optimization and semi-continuous cultivation. <i>Bioresource Technology</i> , 2014 , 163, 128-35	11	52
171	Magnetic biochar catalysts from anaerobic digested sludge: Production, application and environment impact. <i>Environment International</i> , 2019 , 126, 302-308	12.9	51

170	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	7.8	51
169	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	19	51
168	Recent advances in yeast cell-surface display technologies for waste biorefineries. <i>Bioresource Technology</i> , 2016 , 215, 324-333	11	51
167	Improving dewaterability and filterability of waste activated sludge by electrochemical Fenton pretreatment. <i>Chemical Engineering Journal</i> , 2019 , 362, 525-536	14.7	51
166	Characterization of biomass waste torrefaction under conventional and microwave heating. <i>Bioresource Technology</i> , 2018 , 264, 7-16	11	48
165	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	14.7	47
164	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	11	47
163	Ag/AgCl@helical chiral TiO ₂ nanofibers as a visible-light driven plasmon photocatalyst. <i>Chemical Communications</i> , 2013 , 49, 10367-9	5.8	46
162	Quantitation of protein phosphorylation in pregnant rat uteri using stable isotope dimethyl labeling coupled with IMAC. <i>Proteomics</i> , 2006 , 6, 1722-34	4.8	46
161	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	4.2	45
160	Kinetics and mechanisms of the formation of chlorinated and oxygenated polycyclic aromatic hydrocarbons during chlorination. <i>Chemical Engineering Journal</i> , 2018 , 351, 248-257	14.7	44
159	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, 106-13	11	44
158	Polyethylenimine-modified chitosan materials for the recovery of La(III) from leachates of bauxite residue. <i>Chemical Engineering Journal</i> , 2020 , 388, 124307	14.7	44
157	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	7.8	43
156	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	14.7	43
155	Generation of high-efficient biochar for dye adsorption using frass of yellow mealworms (larvae of <i>Tenebrio molitor</i> Linnaeus) fed with wheat straw for insect biomass production. <i>Journal of Cleaner Production</i> , 2019 , 227, 33-47	10.3	42
154	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	4.2	42
153	Feasibility of CO mitigation and carbohydrate production by microalga CNW-N used for bioethanol fermentation under outdoor conditions: effects of seasonal changes. <i>Biotechnology for Biofuels</i> , 2017 , 10, 27	7.8	42

152	Technologies towards antibiotic resistance genes (ARGs) removal from aquatic environment: A critical review. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125148	12.8	42
151	Lipase cocktail for efficient conversion of oils containing phospholipids to biodiesel. <i>Bioresource Technology</i> , 2016 , 211, 224-30	11	41
150	A novel clean production approach to utilize crop waste residues as co-diet for mealworm (<i>Tenebrio molitor</i>) biomass production with biochar as byproduct for heavy metal removal. <i>Environmental Pollution</i> , 2019 , 252, 1142-1153	9.3	40
149	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, 277-84	12.8	40
148	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	11	40
147	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2891-2904	13.3	39
146	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	11	37
145	Comparison and characterization of property variation of microalgal biomass with non-oxidative and oxidative torrefaction. <i>Fuel</i> , 2019 , 246, 375-385	7.1	37
144	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	12.5	37
143	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	12.8	37
142	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	11	37
141	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	11	36
140	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, 407-13	11	36
139	Microalgal Torrefaction for Solid Biofuel Production. <i>Trends in Biotechnology</i> , 2020 , 38, 1023-1033	15.1	36
138	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	7	36
137	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	11	35
136	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	11	35
135	Engineering of a novel cellulose-adherent cellulolytic <i>Saccharomyces cerevisiae</i> for cellulosic biofuel production. <i>Scientific Reports</i> , 2016 , 6, 24550	4.9	34

134	Revolutions in algal biochar for different applications: State-of-the-art techniques and future scenarios. <i>Chinese Chemical Letters</i> , 2020 , 31, 2591-2602	8.1	34
133	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23904-23913	13	33
132	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	10.2	33
131	Recent advances in hydrogen production by thermo-catalytic conversion of biomass. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14266-14278	6.7	33
130	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	12.8	33
129	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	12.8	33
128	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	4.9	32
127	Rapid in vivo lipid/carbohydrate quantification of single microalgal cell by Raman spectral imaging to reveal salinity-induced starch-to-lipid shift. <i>Biotechnology for Biofuels</i> , 2017 , 10, 9	7.8	31
126	Nanostructured manganese oxides: natural/artificial formation and their induced catalysis for wastewater remediation. <i>Environmental Science: Nano</i> , 2020 , 7, 368-396	7.1	31
125	A dually prewetted 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	13	30
124	Designing and characterizing a multi-stepped ultrasonic horn for enhanced sonochemical performance. <i>Ultrasonics Sonochemistry</i> , 2015 , 27, 325-333	8.9	30
123	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	11	30
122	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	4.2	30
121	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	6.7	30
120	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	29
119	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	11	29
118	Integration of sludge digestion and microalgae cultivation for enhancing bioenergy and biorefinery. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 96, 76-90	16.2	28
117	Modeling of quantitative effects of water components on the photocatalytic degradation of 17 β -ethynylestradiol in a modified flat plate serpentine reactor. <i>Journal of Hazardous Materials</i> , 2013 , 254-255, 64-71	12.8	28

116	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. <i>Biotechnology Journal</i> , 2015 , 10, 886-98	5.6	28
115	Graphitic nitride-catalyzed advanced oxidation processes (AOPs) for landfill leachate treatment: A mini review. <i>Chemical Engineering Research and Design</i> , 2020 , 139, 230-240	5.5	27
114	Inhibition kinetics of ammonium oxidizing bacteria under Cu(II) and As(III) stresses during the nitrification process. <i>Chemical Engineering Journal</i> , 2018 , 352, 811-817	14.7	27
113	Photobioreactors 2017 , 313-352		27
112	Converting nitrogen and phosphorus wastewater into bioenergy using microalgae-bacteria consortia: A critical review. <i>Bioresource Technology</i> , 2021 , 342, 126056	11	27
111	Lignocellulosic saccharification by a newly isolated bacterium, <i>Ruminiclostridium thermocellum</i> M3 and cellular cellulase activities for high ratio of glucose to cellobiose. <i>Biotechnology for Biofuels</i> , 2016 , 9, 172	7.8	26
110	Proteomic analysis of proteins from bronchoalveolar lavage fluid reveals the action mechanism of ultrafine carbon black-induced lung injury in mice. <i>Proteomics</i> , 2007 , 7, 4388-97	4.8	26
109	Adaptive response of arbuscular mycorrhizal symbiosis to accumulation of elements and translocation in <i>Phragmites australis</i> affected by cadmium stress. <i>Journal of Environmental Management</i> , 2017 , 197, 448-455	7.9	25
108	How does ionic liquid play a role in sustainability of biomass processing?. <i>Journal of Cleaner Production</i> , 2021 , 284, 124772	10.3	24
107	Role of <i>Rhizophagus irregularis</i> in alleviating cadmium toxicity via improving the growth, micro- and macroelements uptake in <i>Phragmites australis</i> . <i>Environmental Science and Pollution Research</i> , 2017 , 24, 3593-3607	5.1	23
106	Characterization and quantification of chromate adsorption by layered porous iron oxyhydroxide: An experimental and theoretical study. <i>Journal of Hazardous Materials</i> , 2017 , 338, 472-481	12.8	23
105	The critical utilization of active heterotrophic microalgae for bioremoval of Cr(VI) in organics co-contaminated wastewater. <i>Chemosphere</i> , 2019 , 228, 536-544	8.4	23
104	Role of biochar surface characteristics in the adsorption of aromatic compounds: pore structure and functional groups. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	23
103	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	14.7	22
102	<i>Spirulina platensis</i> based biorefinery for the production of value-added products for food and pharmaceutical applications. <i>Bioresource Technology</i> , 2019 , 289, 121727	11	21
101	Enhanced Directional Seawater Desalination Using a Structure-Guided Wood Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22387-22397	9.5	20
100	Distribution of flame retardants in smartphones and identification of current-use organic chemicals including three novel aryl organophosphate esters. <i>Science of the Total Environment</i> , 2019 , 693, 133654	10.2	20
99	Selection of elite microalgae for biodiesel production in tropical conditions using a standardized platform. <i>Bioresource Technology</i> , 2013 , 147, 135-142	11	20

98	Mechanisms of simultaneous hydrogen production and estrogenic activity removal from secondary effluent through solar photocatalysis. <i>Water Research</i> , 2013 , 47, 3173-82	12.5	20
97	Enhanced wood-derived photothermal evaporation system by in-situ incorporated lignin carbon quantum dots. <i>Chemical Engineering Journal</i> , 2021 , 405, 126703	14.7	20
96	Exploring the inhibitory characteristics of acid hydrolysates upon butanol fermentation: A toxicological assessment. <i>Bioresource Technology</i> , 2015 , 198, 571-6	11	19
95	Bioprocess operation strategies with mixotrophy/photoinduction to enhance lutein production of microalga <i>Chlorella sorokiniana</i> FZU60. <i>Bioresource Technology</i> , 2019 , 290, 121798	11	19
94	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	16.2	19
93	Sustainable biochar as an electrocatalysts for the oxygen reduction reaction in microbial fuel cells. <i>Green Energy and Environment</i> , 2020 ,	5.7	19
92	Improving carbohydrate production of <i>Chlorella sorokiniana</i> NIES-2168 through semi-continuous process coupled with mixotrophic cultivation. <i>Biotechnology Journal</i> , 2016 , 11, 1072-81	5.6	19
91	Conversion of <i>Chlamydomonas</i> sp. JSC4 lipids to biodiesel using <i>Fusarium heterosporum</i> lipase-expressing <i>Aspergillus oryzae</i> whole-cell as biocatalyst. <i>Algal Research</i> , 2017 , 28, 16-23	5	18
90	Enhancing production of lutein by a mixotrophic cultivation system using microalga <i>Scenedesmus obliquus</i> CWL-1. <i>Bioresource Technology</i> , 2019 , 291, 121891	11	18
89	Ag/ZnO hollow sphere composites: reusable photocatalyst for photocatalytic degradation of 17 β -ethinylestradiol. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 5177-86	5.1	18
88	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	12.8	18
87	Co-production of lutein and fatty acid in microalga <i>Chlamydomonas</i> sp. JSC4 in response to different temperatures with gene expression profiles. <i>Algal Research</i> , 2020 , 47, 101821	5	17
86	Modulating the tumor microenvironment with new therapeutic nanoparticles: A promising paradigm for tumor treatment. <i>Medicinal Research Reviews</i> , 2020 , 40, 1084-1102	14.4	17
85	Facile and rapid separation of oil from emulsions by hydrophobic and lipophilic Fe ₃ O ₄ /sawdust composites. <i>Chemical Engineering Research and Design</i> , 2018 , 129, 102-110	5.5	17
84	Recent advances on food waste pretreatment technology via microalgae for source of polyhydroxyalkanoates. <i>Journal of Environmental Management</i> , 2021 , 293, 112782	7.9	17
83	Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass. <i>Chemosphere</i> , 2021 , 281, 130886	8.4	17
82	Development of a facile and bi-functional superhydrophobic suspension and its applications in superhydrophobic coatings and aerogels in high-efficiency oil/water separation. <i>Green Chemistry</i> , 2020 , 22, 7424-7434	10	16
81	Comprehensive Utilization of Marine Microalgae for Enhanced Co-Production of Multiple Compounds. <i>Marine Drugs</i> , 2020 , 18,	6	16

80	Optimizing the production of short and medium chain fatty acids (SCFAs and MCFAs) from waste activated sludge using different alkyl polyglucose surfactants, through bacterial metabolic analysis. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121384	12.8	16
79	Simultaneous photocatalytic degradation of ibuprofen and H ₂ evolution over Au/sheaf-like TiO ₂ mesocrystals. <i>Chemosphere</i> , 2020 , 261, 127759	8.4	15
78	Manipulating Nutritional Conditions and Salinity-Gradient Stress for Enhanced Lutein Production in Marine Microalga <i>Chlamydomonas</i> sp. <i>Biotechnology Journal</i> , 2019 , 14, e1800380	5.6	15
77	Migration of Iron Oxide Nanoparticle through a Silica Shell by the Redox-Buffering Effect. <i>ACS Nano</i> , 2018 , 12, 10949-10956	16.7	15
76	Preparation of a new superhydrophobic/superoleophilic corn straw fiber used as an oil absorbent for selective absorption of oil from water. <i>Bioresources and Bioprocessing</i> , 2018 , 5,	5.2	14
75	Enhancing lipid production in attached culture of a thermotolerant microalga <i>Desmodesmus</i> sp. F51 using light-related strategies. <i>Biochemical Engineering Journal</i> , 2018 , 129, 119-128	4.2	14
74	Enhancing the oil extraction efficiency of <i>Chlorella vulgaris</i> with cell-disruptive pretreatment using active extracellular substances from <i>Bacillus thuringiensis</i> ITRI-G1. <i>Biochemical Engineering Journal</i> , 2015 , 101, 185-190	4.2	13
73	Microalgae as a solution of third world energy crisis for biofuels production from wastewater toward carbon neutrality: An updated review. <i>Chemosphere</i> , 2021 , 291, 132863	8.4	13
72	Attached culture of <i>Chlamydomonas</i> sp. JSC4 for biofilm production and TN/TP/Cu(II) removal. <i>Biochemical Engineering Journal</i> , 2019 , 141, 1-9	4.2	13
71	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	14.7	13
70	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	11	12
69	Cell growth and lipid accumulation of a microalgal mutant sp. Z-4 by combining light/dark cycle with temperature variation. <i>Biotechnology for Biofuels</i> , 2017 , 10, 260	7.8	12
68	Development and modeling of a flat plate serpentine reactor for photocatalytic degradation of 17-ethinylestradiol. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2321-9	5.1	12
67	Applying a modified Donnan model to describe the surface complexation of chromate to iron oxyhydroxide agglomerates with heteromorphous pores. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 66-75	9.3	12
66	Bioconversion of mature landfill leachate into biohydrogen and volatile fatty acids via microalgal photosynthesis together with dark fermentation. <i>Energy Conversion and Management</i> , 2021 , 115035	10.6	12
65	Fermentation of pigment-extracted microalgal residue using yeast cell-surface display: direct high-density ethanol production with competitive life cycle impacts. <i>Green Chemistry</i> , 2020 , 22, 153-162 ¹⁰		12
64	Strategies related to light quality and temperature to improve lutein production of marine microalga <i>Chlamydomonas</i> sp. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 435-443	3.7	12
63	Co-culture of <i>Chlorella</i> and <i>Scenedesmus</i> could enhance total lipid production under bacteria quorum sensing molecule stress. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101739	6.7	12

62	Engineering and modeling perspectives on photocatalytic reactors for water treatment. <i>Water Research</i> , 2021 , 202, 117421	12.5	12
61	Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications. <i>Environmental Research</i> , 2022 , 204, 111966	7.9	12
60	Using a trait-based approach to optimize mixotrophic growth of the red microalga towards fatty acid production. <i>Biotechnology for Biofuels</i> , 2018 , 11, 273	7.8	11
59	Simultaneous separation of multiphase emulsion mixture and catalytic degradation of BPA via microalgae residue membranes. <i>Chemical Engineering Journal</i> , 2020 , 393, 124750	14.7	10
58	Pilot-scale cultivation of <i>Chlorella sorokiniana</i> FZU60 with a mixotrophy/photoautotrophy two-stage strategy for efficient lutein production. <i>Bioresource Technology</i> , 2020 , 314, 123767	11	10
57	Biorefining and the Functional Properties of Proteins from Lipid and Pigment Extract Residue of a <i>pyrenoidosa</i> . <i>Marine Drugs</i> , 2019 , 17,	6	10
56	Biohydrogen production from microalgae for environmental sustainability. <i>Chemosphere</i> , 2021 , 132717	8.4	10
55	Optimizing and understanding the pressurized vertical electro-osmotic dewatering of activated sludge. <i>Chemical Engineering Research and Design</i> , 2020 , 140, 392-402	5.5	9
54	Synchronous removal of emulsions and soluble organic contaminants via a microalgae-based membrane system: performance and mechanisms. <i>Water Research</i> , 2021 , 206, 117741	12.5	9
53	Conceptual design of a hybrid thin layer cascade photobioreactor for microalgal biodiesel synthesis. <i>International Journal of Energy Research</i> , 2020 , 44, 9757-9771	4.5	9
52	Computational simulation associated with biological effects of alkyl organophosphate flame retardants with different carbon chain lengths on <i>Chlorella pyrenoidosa</i> . <i>Chemosphere</i> , 2021 , 263, 127997	8.4	9
51	Wastewater treatment nexus: Carbon nanomaterials towards potential aquatic ecotoxicity. <i>Journal of Hazardous Materials</i> , 2021 , 417, 125959	12.8	9
50	Two-stage bioprocess for hyper-production of lutein from microalga <i>Chlorella sorokiniana</i> FZU60: Effects of temperature, light intensity, and operation strategies. <i>Algal Research</i> , 2020 , 52, 102119	5	8
49	An overlooked effect induced by surface modification: different molecular response of <i>Chlorella pyrenoidosa</i> to graphitized and oxidized nanodiamonds. <i>Environmental Science: Nano</i> , 2020 , 7, 2302-2312	7.1	8
48	Metabolomic assessment of arsenite toxicity and novel biomarker discovery in early development of zebrafish embryos. <i>Toxicology Letters</i> , 2018 , 290, 116-122	4.4	8
47	Promotion effects of ultrasound on sludge biodegradation by thermophilic bacteria <i>Geobacillus stearothermophilus</i> TP-12. <i>Biochemical Engineering Journal</i> , 2016 , 105, 281-287	4.2	8
46	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	9.3	8
45	Simultaneous implementation of sludge dewatering and solid biofuel production by microwave torrefaction. <i>Environmental Research</i> , 2021 , 195, 110775	7.9	8

44	Aliphatic Group-Tethered Iridium Complex as a Theranostic Agent against Malignant Melanoma Metastasis.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2017-2027	4.1	7
43	Enhanced thermal conductivity of waste sawdust-based composite phase change materials with expanded graphite for thermal energy storage. <i>Bioresources and Bioprocessing</i> , 2017 , 4,	5.2	7
42	Enhancing Biohydrogen Production from Chlorella Vulgaris FSP-E Under Mixotrophic Cultivation Conditions. <i>Energy Procedia</i> , 2014 , 61, 870-873	2.3	7
41	Algae-mediated antibiotic wastewater treatment: A critical review. <i>Environmental Science and Ecotechnology</i> , 2022 , 9, 100145	7.4	7
40	Induced cultivation pattern enhanced the phycoerythrin production in red alga Porphyridium purpureum. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 347-355	3.7	7
39	Algal culture and biofuel production using wastewater 2019 , 167-198		6
38	Algae-mediated biosystems for metallic nanoparticle production: From synthetic mechanisms to aquatic environmental applications. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126625	12.8	6
37	Tailoring a novel hierarchical cheese-like porous biochar from algae residue to boost sulfathiazole removal. <i>Environmental Science and Ecotechnology</i> , 2022 , 10, 100168	7.4	6
36	Evaluation of genes involved in oxidative phosphorylation in yeast by developing a simple and rapid method to measure mitochondrial ATP synthetic activity. <i>Microbial Cell Factories</i> , 2015 , 14, 56	6.4	5
35	Treatment for Landfill Leachate via Physicochemical Approaches. <i>Chemical and Biochemical Engineering Quarterly</i> , 2020 , 34, 1-24	1.8	5
34	Genome sequencing, assembly, and annotation of the self-flocculating microalga Scenedesmus obliquus AS-6-11. <i>BMC Genomics</i> , 2020 , 21, 743	4.5	5
33	Phytotoxic effect and molecular mechanism induced by nanodiamonds towards aquatic Chlorella pyrenoidosa by integrating regular and transcriptomic analyses. <i>Chemosphere</i> , 2021 , 270, 129473	8.4	5
32	Superhydrophobic/superoleophilic corn straw as an eco-friendly oil sorbent for the removal of spilled oil. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 145-152	4.3	5
31	Comparative indexes, fuel characterization and thermogravimetric- Fourier transform infrared spectrometer-mass spectrogram (TG-FTIR-MS) analysis of microalga Nannochloropsis Oceanica under oxidative and inert torrefaction. <i>Energy</i> , 2021 , 230, 120824	7.9	5
30	Smart microalgae farming with internet-of-things for sustainable agriculture.. <i>Biotechnology Advances</i> , 2022 , 107931	17.8	5
29	Effect of torrefaction on the structure and reactivity of rice straw as well as life cycle assessment of torrefaction process. <i>Energy</i> , 2021 , 240, 122470	7.9	4
28	Synchronous removal of emulsions and organic dye over palladium nanoparticles anchored cellulose-based membrane. <i>Journal of Environmental Management</i> , 2021 , 288, 112402	7.9	4
27	Strategies for achieving high-level and stable production of toxic Streptomyces phospholipase D in Escherichia coli. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1220-1229	3.5	4

26	Bimetallic nitrogen-doped porous carbon derived from ZIF-L&FeTPP@ZIF-8 as electrocatalysis and application for antibiotic wastewater treatment. <i>Separation and Purification Technology</i> , 2021 , 276, 119259	8.3	4
25	Application of biodegradable cellulose-based biomass materials in wastewater treatment. <i>Environmental Pollution</i> , 2021 , 290, 118087	9.3	4
24	Unraveling hydrogen production potential by glucose and xylose co-fermentation of <i>Thermoanaerobacterium thermosaccharolyticum</i> W16 and its metabolisms through transcriptomic sequencing. <i>International Journal of Energy Research</i> , 2020 , 44, 9617-9628	4.5	3
23	Revealing the role of nitrate on sulfide removal coupled with bioenergy production in <i>Chlamydomonas</i> sp. Tai-03: Metabolic pathways and mechanisms. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123115	12.8	3
22	Detecting Ferric Iron by Microalgal Residue-Derived Fluorescent Nanosensor with an Advanced Kinetic Model. <i>IScience</i> , 2020 , 23, 101174	6.1	3
21	Fabrication of Green Superhydrophobic/Superoleophilic Wood Flour for Efficient Oil Separation from Water. <i>Processes</i> , 2019 , 7, 414	2.9	3
20	Oxidative torrefaction performance of microalga <i>Nannochloropsis Oceanica</i> towards an upgraded microalgal solid biofuel. <i>Journal of Biotechnology</i> , 2021 , 338, 81-90	3.7	3
19	Salinity-induced microalgal-based mariculture wastewater treatment combined with biodiesel production. <i>Bioresource Technology</i> , 2021 , 340, 125638	11	3
18	Insights into the microalgae-bacteria consortia treating swine wastewater: symbiotic mechanism and resistance genes analysis.. <i>Bioresource Technology</i> , 2022 , 126892	11	3
17	Cationic polyacrylamide (CPAM) enhanced pressurized vertical electro-osmotic dewatering of activated sludge. <i>Science of the Total Environment</i> , 2021 , 151787	10.2	2
16	Simultaneous blocking of the pan-RAF and S100B pathways as a synergistic therapeutic strategy against malignant melanoma. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 1972-1981	5.6	2
15	Effects of Biochar on Microalgal Growth: Difference between Dissolved and Undissolved Fractions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9156-9164	8.3	2
14	Enhancement of co-production of lutein and protein in <i>Chlorella sorokiniana</i> FZU60 using different bioprocess operation strategies. <i>Bioresources and Bioprocessing</i> , 2021 , 8,	5.2	2
13	Emerging biological wastewater treatment using microalgal-bacterial granules: A review.. <i>Bioresource Technology</i> , 2022 , 127089	11	2
12	Rational design of <i>Spirulina</i> residue-derived graphene oxide as an efficient metal-free catalyst for sulfathiazole removal. <i>Separation and Purification Technology</i> , 2022 , 290, 120862	8.3	2
11	How to enhance carbon capture by evolution of microalgal photosynthesis?. <i>Separation and Purification Technology</i> , 2022 , 291, 120951	8.3	2
10	Effective purification of oily wastewater using lignocellulosic biomass: A review. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	1
9	Elemental loss, enrichment, transformation and life cycle assessment of torrefied corncob. <i>Energy</i> , 2022 , 242, 123019	7.9	1

8	Exploring the potential of a newly constructed manganese peroxidase-producing yeast consortium for tolerating lignin degradation inhibitors while simultaneously decolorizing and detoxifying textile azo dye wastewater.. <i>Bioresource Technology</i> , 2022 , 126861	11	1
7	Improving reverse osmosis concentrate treatment and nutrients conversion to <i>Chlorella vulgaris</i> bioenergy assisted with granular activated carbon.. <i>Science of the Total Environment</i> , 2021 , 815, 152663	10.2	0
6	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	3.7	0
5	Recent advances of algae-bacteria consortia in aquatic remediation. <i>Critical Reviews in Environmental Science and Technology</i> , 1-25	11.1	0
4	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	11	0
3	Enhancing astaxanthin production in <i>Haematococcus pluvialis</i> QLD by a pH steady NaHCO ₃ -CO ₂ -C/NH ₄ Cl-N culture system. <i>Algal Research</i> , 2022 , 64, 102697	5	0
2	Adsorption of sulfamethoxazole via biochar: The key role of characteristic components derived from different growth stage of microalgae.. <i>Environmental Research</i> , 2022 , 112965	7.9	0
1	Oxidative torrefaction of microalga <i>Nannochloropsis Oceanica</i> activated by potassium carbonate for solid biofuel production.. <i>Environmental Research</i> , 2022 , 212, 113389	7.9	0