

# Shih-Hsin Ho

## List of Publications by Year in Descending Order

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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	Algae-mediated antibiotic wastewater treatment: A critical review. <i>Environmental Science and Ecotechnology</i> , <b>2022</b> , 9, 100145	7.4	7
240	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 154, 111852	16.2	19
239	Elemental loss, enrichment, transformation and life cycle assessment of torrefied corncob. <i>Energy</i> , <b>2022</b> , 242, 123019	7.9	1
238	Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications. <i>Environmental Research</i> , <b>2022</b> , 204, 111966	7.9	12
237	Insights into the microalgae-bacteria consortia treating swine wastewater: symbiotic mechanism and resistance genes analysis.. <i>Bioresource Technology</i> , <b>2022</b> , 126892	11	3
236	Tailoring a novel hierarchical cheese-like porous biochar from algae residue to boost sulfathiazole removal. <i>Environmental Science and Ecotechnology</i> , <b>2022</b> , 10, 100168	7.4	6
235	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> , <b>2022</b> , 351, 127019	11	0
234	Emerging biological wastewater treatment using microalgal-bacterial granules: A review.. <i>Bioresource Technology</i> , <b>2022</b> , 127089	11	2
233	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> , <b>2022</b> , 126861	11	1
232	Enhancing astaxanthin production in <i>Haematococcus pluvialis</i> QLD by a pH steady NaHCO <sub>3</sub> -CO <sub>2</sub> -C/NH <sub>4</sub> Cl-N culture system. <i>Algal Research</i> , <b>2022</b> , 64, 102697	5	0
231	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> , <b>2022</b> , 290, 120862	8.3	2
230	How to enhance carbon capture by evolution of microalgal photosynthesis?. <i>Separation and Purification Technology</i> , <b>2022</b> , 291, 120951	8.3	2
229	Adsorption of sulfamethoxazole via biochar: The key role of characteristic components derived from different growth stage of microalgae.. <i>Environmental Research</i> , <b>2022</b> , 112965	7.9	0
228	Smart microalgae farming with internet-of-things for sustainable agriculture.. <i>Biotechnology Advances</i> , <b>2022</b> , 107931	17.8	5
227	Oxidative torrefaction of microalga <i>Nannochloropsis Oceanica</i> activated by potassium carbonate for solid biofuel production.. <i>Environmental Research</i> , <b>2022</b> , 212, 113389	7.9	0
226	Effective purification of oily wastewater using lignocellulosic biomass: A review. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	1
225	Bioconversion of mature landfill leachate into biohydrogen and volatile fatty acids via microalgal photosynthesis together with dark fermentation. <i>Energy Conversion and Management</i> , <b>2021</b> , 115035	10.6	12

224	Microalgae as a solution of third world energy crisis for biofuels production from wastewater toward carbon neutrality: An updated review. <i>Chemosphere</i> , <b>2021</b> , 291, 132863	8.4	13
223	Cationic polyacrylamide (CPAM) enhanced pressurized vertical electro-osmotic dewatering of activated sludge. <i>Science of the Total Environment</i> , <b>2021</b> , 151787	10.2	2
222	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> , <b>2021</b> , 815, 152663	10.2	0
221	Synchronous removal of emulsions and soluble organic contaminants via a microalgae-based membrane system: performance and mechanisms. <i>Water Research</i> , <b>2021</b> , 206, 117741	12.5	9
220	Biohydrogen production from microalgae for environmental sustainability. <i>Chemosphere</i> , <b>2021</b> , 132717	8.4	10
219	Effect of torrefaction on the structure and reactivity of rice straw as well as life cycle assessment of torrefaction process. <i>Energy</i> , <b>2021</b> , 240, 122470	7.9	4
218	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> , <b>2021</b> , 25, 1972-1981	5.6	2
217	Molecular mechanism of arachidonic acid biosynthesis in <i>Porphyridium purpureum</i> promoted by nitrogen limitation. <i>Bioprocess and Biosystems Engineering</i> , <b>2021</b> , 44, 1491-1499	3.7	0
216	Advanced oxidation processes for water disinfection: Features, mechanisms and prospects. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128207	14.7	53
215	Simultaneous implementation of sludge dewatering and solid biofuel production by microwave torrefaction. <i>Environmental Research</i> , <b>2021</b> , 195, 110775	7.9	8
214	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2891-2904	13.3	39
213	Permeabilization of <i>Haematococcus pluvialis</i> and solid-liquid extraction of astaxanthin by CO <sub>2</sub> -based alkyl carbamate ionic liquids. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128510	14.7	22
212	Role of biochar surface characteristics in the adsorption of aromatic compounds: pore structure and functional groups. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	23
211	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , <b>2021</b> , 296, 126589	10.3	166
210	Phytotoxic effect and molecular mechanism induced by nanodiamonds towards aquatic <i>Chlorella pyrenoidosa</i> by integrating regular and transcriptomic analyses. <i>Chemosphere</i> , <b>2021</b> , 270, 129473	8.4	5
209	Synchronous removal of emulsions and organic dye over palladium nanoparticles anchored cellulose-based membrane. <i>Journal of Environmental Management</i> , <b>2021</b> , 288, 112402	7.9	4
208	Technologies towards antibiotic resistance genes (ARGs) removal from aquatic environment: A critical review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 411, 125148	12.8	42
207	Computational simulation associated with biological effects of alkyl organophosphate flame retardants with different carbon chain lengths on <i>Chlorella pyrenoidosa</i> . <i>Chemosphere</i> , <b>2021</b> , 263, 127997	8.4	9

206	Enhanced wood-derived photothermal evaporation system by in-situ incorporated lignin carbon quantum dots. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126703	14.7	20
205	Multifaceted roles of microalgae in the application of wastewater biotreatment: A review. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116236	9.3	105
204	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> , <b>2021</b> , 39, 101739	6.7	12
203	How does ionic liquid play a role in sustainability of biomass processing?. <i>Journal of Cleaner Production</i> , <b>2021</b> , 284, 124772	10.3	24
202	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , <b>2021</b> , 82, 100887	33.6	147
201	Superhydrophobic/superoleophilic corn straw as an eco-friendly oil sorbent for the removal of spilled oil. <i>Clean Technologies and Environmental Policy</i> , <b>2021</b> , 23, 145-152	4.3	5
200	Enhancement of co-production of lutein and protein in <i>Chlorella sorokiniana</i> FZU60 using different bioprocess operation strategies. <i>Bioresources and Bioprocessing</i> , <b>2021</b> , 8,	5.2	2
199	Oxidative torrefaction performance of microalga <i>Nannochloropsis Oceanica</i> towards an upgraded microalgal solid biofuel. <i>Journal of Biotechnology</i> , <b>2021</b> , 338, 81-90	3.7	3
198	Engineering and modeling perspectives on photocatalytic reactors for water treatment. <i>Water Research</i> , <b>2021</b> , 202, 117421	12.5	12
197	Converting nitrogen and phosphorus wastewater into bioenergy using microalgae-bacteria consortia: A critical review. <i>Bioresource Technology</i> , <b>2021</b> , 342, 126056	11	27
196	Comparative indexes, fuel characterization and thermogravimetric- Fourier transform infrared spectrometer-mass spectrogram (TG-FTIR-MS) analysis of microalga <i>Nannochloropsis Oceanica</i> under oxidative and inert torrefaction. <i>Energy</i> , <b>2021</b> , 230, 120824	7.9	5
195	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> , <b>2021</b> , 418, 126264	12.8	18
194	Recent advances on food waste pretreatment technology via microalgae for source of polyhydroxyalkanoates. <i>Journal of Environmental Management</i> , <b>2021</b> , 293, 112782	7.9	17
193	Wastewater treatment nexus: Carbon nanomaterials towards potential aquatic ecotoxicity. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 125959	12.8	9
192	Algae-mediated biosystems for metallic nanoparticle production: From synthetic mechanisms to aquatic environmental applications. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 420, 126625	12.8	6
191	Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass. <i>Chemosphere</i> , <b>2021</b> , 281, 130886	8.4	17
190	Salinity-induced microalgal-based mariculture wastewater treatment combined with biodiesel production. <i>Bioresource Technology</i> , <b>2021</b> , 340, 125638	11	3
189	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> , <b>2021</b> , 276, 119259	8.3	4

188	CO <sub>2</sub> mitigation and phycoremediation of industrial flue gas and wastewater via microalgae-bacteria consortium: Possibilities and challenges. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131436	14.7	13
187	Application of biodegradable cellulose-based biomass materials in wastewater treatment. <i>Environmental Pollution</i> , <b>2021</b> , 290, 118087	9.3	4
186	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> , <b>2020</b> , 52, 102119	5	8
185	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> , <b>2020</b> , 44, 9617-9628	4.5	3
184	Graphitic nitride-catalyzed advanced oxidation processes (AOPs) for landfill leachate treatment: A mini review. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 139, 230-240	5.5	27
183	Optimizing and understanding the pressurized vertical electro-osmotic dewatering of activated sludge. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 140, 392-402	5.5	9
182	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> , <b>2020</b> , 399, 123115	12.8	3
181	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> , <b>2020</b> , 4, 732-742	19	51
180	Detecting Ferric Iron by Microalgal Residue-Derived Fluorescent Nanosensor with an Advanced Kinetic Model. <i>IScience</i> , <b>2020</b> , 23, 101174	6.1	3
179	Natural sponge-like wood-derived aerogel for solar-assisted adsorption and recovery of high-viscous crude oil. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125865	14.7	43
178	Treatment for Landfill Leachate via Physicochemical Approaches. <i>Chemical and Biochemical Engineering Quarterly</i> , <b>2020</b> , 34, 1-24	1.8	5
177	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> , <b>2020</b> , 393, 122435	12.8	33
176	Anisotropic plasmonic nanostructures for colorimetric sensing. <i>Nano Today</i> , <b>2020</b> , 32, 100855	17.9	60
175	Simultaneous separation of multiphase emulsion mixture and catalytic degradation of BPA via microalgae residue membranes. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124750	14.7	10
174	Aliphatic Group-Tethered Iridium Complex as a Theranostic Agent against Malignant Melanoma Metastasis. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 2017-2027	4.1	7
173	Biological remediation of acid mine drainage: Review of past trends and current outlook. <i>Environmental Science and Ecotechnology</i> , <b>2020</b> , 2, 100024	7.4	66
172	Microalgal Torrefaction for Solid Biofuel Production. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 1023-1033	15.1	36
171	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> , <b>2020</b> , 7, 2302-2312	7.1	8

170	Pilot-scale cultivation of <i>Chlorella sorokiniana</i> FZU60 with a mixotrophy/photoautotrophy two-stage strategy for efficient lutein production. <i>Bioresource Technology</i> , <b>2020</b> , 314, 123767	11	10
169	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> , <b>2020</b> , 305, 123072	11	40
168	Potential utilization of bioproducts from microalgae for the quality enhancement of natural products. <i>Bioresource Technology</i> , <b>2020</b> , 304, 122997	11	134
167	Cultivating <i>Chlorella sorokiniana</i> AK-1 with swine wastewater for simultaneous wastewater treatment and algal biomass production. <i>Bioresource Technology</i> , <b>2020</b> , 302, 122814	11	59
166	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> , <b>2020</b> , 173, 115552	12.5	37
165	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> , <b>2020</b> , 47, 101821	5	17
164	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> , <b>2020</b> , 393, 124725	14.7	47
163	Enhanced Directional Seawater Desalination Using a Structure-Guided Wood Aerogel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 22387-22397	9.5	20
162	Adsorption behavior of Cr(VI) by magnetically modified <i>Enteromorpha prolifera</i> based biochar and the toxicity analysis. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 395, 122658	12.8	37
161	Effects of Biochar on Microalgal Growth: Difference between Dissolved and Undissolved Fractions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 9156-9164	8.3	2
160	Modulating the tumor microenvironment with new therapeutic nanoparticles: A promising paradigm for tumor treatment. <i>Medicinal Research Reviews</i> , <b>2020</b> , 40, 1084-1102	14.4	17
159	A review on microalgae cultivation and harvesting, and their biomass extraction processing using ionic liquids. <i>Bioengineered</i> , <b>2020</b> , 11, 116-129	5.7	92
158	Nanostructured manganese oxides: natural/artificial formation and their induced catalysis for wastewater remediation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 368-396	7.1	31
157	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> , <b>2020</b> , 22, 153-162 <sup>10</sup>	10	12
156	Revealing the role of adsorption in ciprofloxacin and sulfadiazine elimination routes in microalgae. <i>Water Research</i> , <b>2020</b> , 172, 115475	12.5	68
155	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> , <b>2020</b> , 388, 121773	12.8	33
154	Revolutions in algal biochar for different applications: State-of-the-art techniques and future scenarios. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2591-2602	8.1	34
153	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , <b>2020</b> , 187, 116390	12.5	70



152	Immobilization of Hg(II) on high-salinity Spirulina residue-induced biochar from aqueous solutions: Sorption and transformation mechanisms by the dual-mode isotherms. <i>Environmental Pollution</i> , <b>2020</b> , 265, 115087	9.3	8
151	Polyethylenimine-modified chitosan materials for the recovery of La(III) from leachates of bauxite residue. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124307	14.7	44
150	Sustainable biochar as an electrocatalysts for the oxygen reduction reaction in microbial fuel cells. <i>Green Energy and Environment</i> , <b>2020</b> ,	5.7	19
149	Conceptual design of a hybrid thin layer cascade photobioreactor for microalgal biodiesel synthesis. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9757-9771	4.5	9
148	Simultaneous photocatalytic degradation of ibuprofen and H <sub>2</sub> evolution over Au/sheaf-like TiO <sub>2</sub> mesocrystals. <i>Chemosphere</i> , <b>2020</b> , 261, 127759	8.4	15
147	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> , <b>2020</b> , 22, 7424-7434	10	16
146	Genome sequencing, assembly, and annotation of the self-flocculating microalga <i>Scenedesmus obliquus</i> AS-6-11. <i>BMC Genomics</i> , <b>2020</b> , 21, 743	4.5	5
145	Comprehensive Utilization of Marine Microalgae for Enhanced Co-Production of Multiple Compounds. <i>Marine Drugs</i> , <b>2020</b> , 18,	6	16
144	Graphitic biochar catalysts from anaerobic digestion sludge for nonradical degradation of micropollutants and disinfection. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123244	14.7	58
143	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> , <b>2020</b> , 384, 121384	12.8	16
142	Induced cultivation pattern enhanced the phycoerythrin production in red alga <i>Porphyridium purpureum</i> . <i>Bioprocess and Biosystems Engineering</i> , <b>2020</b> , 43, 347-355	3.7	7
141	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> , <b>2020</b> , 45, 22260-22270	6.7	30
140	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23904-23913	13	33
139	Dual purpose microalgae-based biorefinery for treating pharmaceuticals and personal care products (PPCPs) residues and biodiesel production. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 253-261	10.2	33
138	Progress and perspective on algal plastics - A critical review. <i>Bioresource Technology</i> , <b>2019</b> , 289, 121700	11	63
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> , <b>2019</b> , 289, 121702	11	35
136	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117795	21.8	62
135	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> , <b>2019</b> , 252, 1142-1153	9.3	40

134	Electrophilicity index as a critical indicator for the biodegradation of the pharmaceuticals in aerobic activated sludge processes. <i>Water Research</i> , <b>2019</b> , 160, 10-17	12.5	57
133	N-doped graphitic biochars from C-phycoyanin extracted Spirulina residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. <i>Water Research</i> , <b>2019</b> , 159, 77-86	12.5	175
132	The critical utilization of active heterotrophic microalgae for bioremoval of Cr(VI) in organics co-contaminated wastewater. <i>Chemosphere</i> , <b>2019</b> , 228, 536-544	8.4	23
131	Magnetic biochar catalysts from anaerobic digested sludge: Production, application and environment impact. <i>Environment International</i> , <b>2019</b> , 126, 302-308	12.9	51
130	Recent advances in hydrogen production by thermo-catalytic conversion of biomass. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 14266-14278	6.7	33
129	Comparison and characterization of property variation of microalgal biomass with non-oxidative and oxidative torrefaction. <i>Fuel</i> , <b>2019</b> , 246, 375-385	7.1	37
128	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> , <b>2019</b> , 227, 33-47	10.3	42
127	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> , <b>2019</b> , 7, 11305-11313 <sup>13</sup>		30
126	Inactivation of pathogenic microorganisms by sulfate radical: Present and future. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 222-232	14.7	66
125	Algal culture and biofuel production using wastewater <b>2019</b> , 167-198		6
124	Biorefining and the Functional Properties of Proteins from Lipid and Pigment Extract Residue of a pyrenoidosa. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	10
123	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> , <b>2019</b> , 693, 133654	10.2	20
122	Fabrication of Green Superhydrophobic/Superoleophilic Wood Flour for Efficient Oil Separation from Water. <i>Processes</i> , <b>2019</b> , 7, 414	2.9	3
121	Bioprocess operation strategies with mixotrophy/photoinduction to enhance lutein production of microalga <i>Chlorella sorokiniana</i> FZU60. <i>Bioresource Technology</i> , <b>2019</b> , 290, 121798	11	19
120	Enhancing production of lutein by a mixotrophic cultivation system using microalga <i>Scenedesmus obliquus</i> CWL-1. <i>Bioresource Technology</i> , <b>2019</b> , 291, 121891	11	18
119	<i>Spirulina platensis</i> based biorefinery for the production of value-added products for food and pharmaceutical applications. <i>Bioresource Technology</i> , <b>2019</b> , 289, 121727	11	21
118	Progress and challenges in photocatalytic disinfection of waterborne Viruses: A review to fill current knowledge gaps. <i>Chemical Engineering Journal</i> , <b>2019</b> , 355, 399-415	14.7	123
117	Enhancing lutein productivity of <i>Chlamydomonas</i> sp. via high-intensity light exposure with corresponding carotenogenic genes expression profiles. <i>Bioresource Technology</i> , <b>2019</b> , 275, 416-420	11	29



116	Strategies for achieving high-level and stable production of toxic <i>Streptomyces</i> phospholipase D in <i>Escherichia coli</i> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 1220-1229	3.5	4
115	Oxidative torrefaction of biomass nutshells: Evaluations of energy efficiency as well as biochar transportation and storage. <i>Applied Energy</i> , <b>2019</b> , 235, 428-441	10.7	58
114	Strategies related to light quality and temperature to improve lutein production of marine microalga <i>Chlamydomonas</i> sp. <i>Bioprocess and Biosystems Engineering</i> , <b>2019</b> , 42, 435-443	3.7	12
113	Improving dewaterability and filterability of waste activated sludge by electrochemical Fenton pretreatment. <i>Chemical Engineering Journal</i> , <b>2019</b> , 362, 525-536	14.7	51
112	Manipulating Nutritional Conditions and Salinity-Gradient Stress for Enhanced Lutein Production in Marine Microalga <i>Chlamydomonas</i> sp. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800380	5.6	15
111	Mechanistic Study on the Role of Soluble Microbial Products in Sulfate Radical-Mediated Degradation of Pharmaceuticals. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 342-353	10.3	58
110	Attached culture of <i>Chlamydomonas</i> sp. JSC4 for biofilm production and TN/TP/Cu(II) removal. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 141, 1-9	4.2	13
109	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> , <b>2018</b> , 5,	5.2	14
108	Enhancing cadmium bioremediation by a complex of water-hyacinth derived pellets immobilized with <i>Chlorella</i> sp. <i>Bioresource Technology</i> , <b>2018</b> , 257, 157-163	11	30
107	Activation of peroxymonosulfate/persulfate by nanomaterials for sulfate radical-based advanced oxidation technologies. <i>Current Opinion in Chemical Engineering</i> , <b>2018</b> , 19, 51-58	5.4	224
106	Torrefaction performance and energy usage of biomass wastes and their correlations with torrefaction severity index. <i>Applied Energy</i> , <b>2018</b> , 220, 598-604	10.7	112
105	Highly efficient adsorption of dyes by biochar derived from pigments-extracted macroalgae pyrolyzed at different temperature. <i>Bioresource Technology</i> , <b>2018</b> , 259, 104-110	11	131
104	Metabolomic assessment of arsenite toxicity and novel biomarker discovery in early development of zebrafish embryos. <i>Toxicology Letters</i> , <b>2018</b> , 290, 116-122	4.4	8
103	Understanding Mechanisms of Synergy between Acidification and Ultrasound Treatments for Activated Sludge Dewatering: From Bench to Pilot-Scale Investigation. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 4313-4323	10.3	77
102	Combining light strategies with recycled medium to enhance the economic feasibility of phycocyanin production with <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , <b>2018</b> , 247, 669-675	11	37
101	Lead removal by a magnetic biochar derived from persulfate-ZVI treated sludge together with one-pot pyrolysis. <i>Bioresource Technology</i> , <b>2018</b> , 247, 463-470	11	99
100	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 4	19.5	55
99	Enhancing lipid production in attached culture of a thermotolerant microalga <i>Desmodesmus</i> sp. F51 using light-related strategies. <i>Biochemical Engineering Journal</i> , <b>2018</b> , 129, 119-128	4.2	14

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96	Inhibition kinetics of ammonium oxidizing bacteria under Cu(II) and As(III) stresses during the nitrification process. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 811-817	14.7	27
95	Enhanced hexavalent chromium removal performance and stabilization by magnetic iron nanoparticles assisted biochar in aqueous solution: Mechanisms and application potential. <i>Chemosphere</i> , <b>2018</b> , 207, 50-59	8.4	105
94	Integration of sludge digestion and microalgae cultivation for enhancing bioenergy and biorefinery. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 96, 76-90	16.2	28
93	Waste biorefineries - integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 50, 101-110	11.4	94
92	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> , <b>2018</b> , 149, 43-50	7	36
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86	Effect of plant species compositions on performance of lab-scale constructed wetland through investigating photosynthesis and microbial communities. <i>Bioresource Technology</i> , <b>2017</b> , 229, 196-203	11	36
85	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> , <b>2017</b> , 24, 3593-3607	5.1	23
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82	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> , <b>2017</b> , 7, 45471	4.9	90
81	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1456-1464	11	89

80	Ferrofluid-assisted rapid and directional harvesting of marine microalgal <i>Chlorella</i> sp. used for biodiesel production. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1337-1340	11	12
79	Characterization and quantification of chromate adsorption by layered porous iron oxyhydroxide: An experimental and theoretical study. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 338, 472-481	12.8	23
78	Evolutionary engineering of salt-resistant <i>Chlamydomonas</i> sp. strains reveals salinity stress-activated starch-to-lipid biosynthesis switching. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1484-1490	11	37
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76	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> , <b>2017</b> , 242, 7-14	11	64
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69	Mechanistic insight into degradation of endocrine disrupting chemical by hydroxyl radical: An experimental and theoretical approach. <i>Environmental Pollution</i> , <b>2017</b> , 231, 1446-1452	9.3	93
68	Magnetic Nanoscale Zerovalent Iron Assisted Biochar: Interfacial Chemical Behaviors and Heavy Metals Remediation Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 9673-9682	8.3	121
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65	High-efficiency removal of lead from wastewater by biochar derived from anaerobic digestion sludge. <i>Bioresource Technology</i> , <b>2017</b> , 246, 142-149	11	145
64	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> , <b>2017</b> , 244, 664-671	11	47
63	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> , <b>2017</b> , 10, 27	7.8	42

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52	Lipase cocktail for efficient conversion of oils containing phospholipids to biodiesel. <i>Bioresource Technology</i> , <b>2016</b> , 211, 224-30	11	41
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50	Perspectives on the feasibility of using microalgae for industrial wastewater treatment. <i>Bioresource Technology</i> , <b>2016</b> , 222, 485-497	11	233
49	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> , <b>2015</b> , 191, 407-13	11	36
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46	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> , <b>2015</b> , 14, 56	6.4	5
45	Exploring the inhibitory characteristics of acid hydrolysates upon butanol fermentation: A toxicological assessment. <i>Bioresource Technology</i> , <b>2015</b> , 198, 571-6	11	19

44	Cultivation of <i>Chlorella vulgaris</i> JSC-6 with swine wastewater for simultaneous nutrient/COD removal and carbohydrate production. <i>Bioresource Technology</i> , <b>2015</b> , 198, 619-25	11	148
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38	Current progress and future prospect of microalgal biomass harvest using various flocculation technologies. <i>Bioresource Technology</i> , <b>2015</b> , 184, 251-257	11	186
37	Effects of nitrogen source availability and bioreactor operating strategies on lutein production with <i>Scenedesmus obliquus</i> FSP-3. <i>Bioresource Technology</i> , <b>2015</b> , 184, 131-138	11	35
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35	Simultaneous enhancement of CO <sub>2</sub> fixation and lutein production with thermo-tolerant <i>Desmodesmus</i> sp. F51 using a repeated fed-batch cultivation strategy. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 86, 33-40	4.2	42
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31	Perspectives on engineering strategies for improving biofuel production from microalgae--a critical review. <i>Biotechnology Advances</i> , <b>2014</b> , 32, 1448-59	17.8	220
30	Achieving high lipid productivity of a thermotolerant microalga <i>Desmodesmus</i> sp. F2 by optimizing environmental factors and nutrient conditions. <i>Bioresource Technology</i> , <b>2014</b> , 156, 108-16	11	53
29	Exploring the high lipid production potential of a thermotolerant microalga using statistical optimization and semi-continuous cultivation. <i>Bioresource Technology</i> , <b>2014</b> , 163, 128-35	11	52
28	Enhancing Biohydrogen Production from <i>Chlorella Vulgaris</i> FSP-E Under Mixotrophic Cultivation Conditions. <i>Energy Procedia</i> , <b>2014</b> , 61, 870-873	2.3	7
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19	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> , <b>2013</b> , 144, 435-44 <sup>11</sup>	11	94
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15	Microalgae-based carbohydrates for biofuel production. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 78, 1-10	4.2	45 <sup>8</sup>
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12	Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. <i>Bioresource Technology</i> , <b>2013</b> , 135, 191-8	11	46 <sup>2</sup>
11	Photobioreactor strategies for improving the CO <sub>2</sub> fixation efficiency of indigenous <i>Scenedesmus obliquus</i> CNW-N: statistical optimization of CO <sub>2</sub> feeding, illumination, and operation mode. <i>Bioresource Technology</i> , <b>2012</b> , 105, 106-13	11	44
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