

# Haiyan Pei

## List of Publications by Year in descending order

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109  
papers

3,710  
citations

109264

35  
h-index

161767

54  
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109  
all docs

109  
docs citations

109  
times ranked

3609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Moderate pre-ozonation coupled with a post-peroxone process remove filamentous cyanobacteria and 2-MIB efficiently: From bench to pilot-scale study. <i>Journal of Hazardous Materials</i> , 2022, 424, 127530.	6.5	9
2	Seawater with Added Monosodium Glutamate Residue (MSGR) Is a Promising Medium for the Cultivation of Two Commercial Marine Microalgae. <i>Water (Switzerland)</i> , 2022, 14, 975.	1.2	2
3	Cyanobacterial bloom intensities determine planktonic eukaryote community structure and stability. <i>Science of the Total Environment</i> , 2022, 838, 156637.	3.9	10
4	Using sodium percarbonate to suppress vertically distributed filamentous cyanobacteria while maintaining the stability of microeukaryotic communities in drinking water reservoirs. <i>Water Research</i> , 2021, 197, 117111.	5.3	19
5	Fe <sup>2+</sup> activating sodium percarbonate (SPC) to enhance removal of <i>Microcystis aeruginosa</i> and microcystins with pre-oxidation and in situ coagulation. <i>Journal of Hazardous Materials</i> , 2021, 412, 125206.	6.5	29
6	Algal-bacterial consortia for bioproduct generation and wastewater treatment. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111395.	8.2	63
7	Monosodium glutamate wastewater assisted seawater to increase lipid productivity in single-celled algae. <i>Renewable Energy</i> , 2021, 179, 1793-1802.	4.3	10
8	Seawater-cultured <i>Spirulina subsalsa</i> as a more promising host for phycocyanin production than <i>Arthrospira platensis</i> . <i>Algal Research</i> , 2021, 60, 102545.	2.4	7
9	Using an anaerobic digestion tank as the anodic chamber of an algae-assisted microbial fuel cell to improve energy production from food waste. <i>Water Research</i> , 2020, 170, 115305.	5.3	30
10	18S rRNA gene sequencing reveals significant influence of anthropogenic effects on microeukaryote diversity and composition along a river-to-estuary gradient ecosystem. <i>Science of the Total Environment</i> , 2020, 705, 135910.	3.9	23
11	Accelerating lipid production in freshwater alga <i>Chlorella sorokiniana</i> SDEC-18 by seawater and ultrasound during the stationary phase. <i>Renewable Energy</i> , 2020, 161, 448-456.	4.3	15
12	Variation of phytoplankton communities and their driving factors along a disturbed temperate river-to-sea ecosystem. <i>Ecological Indicators</i> , 2020, 118, 106776.	2.6	17
13	Campus Sewage Treatment by <i>Golenkinia</i> SDEC-16 and Biofuel Production under Monochromic Light. <i>Journal of Chemistry</i> , 2020, 2020, 1-9.	0.9	6
14	Evidence for a mutualistic relationship between the cyanobacteria <i>Nostoc</i> and fungi <i>Aspergilli</i> in different environments. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 6413-6426.	1.7	14
15	Heuristic Optimization of Culture Conditions for Stimulating Hyper-Accumulation of Biomass and Lipid in <i>Golenkinia</i> SDEC-16. <i>Energies</i> , 2020, 13, 964.	1.6	4
16	Inclined algal biofilm photobioreactor (IABPBR) for cost-effective cultivation of lipid-rich microalgae and treatment of seawater-diluted anaerobically digested effluent from kitchen waste with the aid of phytohormones. <i>Bioresource Technology</i> , 2020, 315, 123761.	4.8	39
17	Chitosan for direct bioflocculation of wastewater. <i>Environmental Chemistry Letters</i> , 2019, 17, 1603-1621.	8.3	90
18	Characterization and optimization of endogenous lipid accumulation in <i>Chlorella vulgaris</i> SDEC-3M ability to rapidly accumulate lipid for reversing nightly lipid loss. <i>Biotechnology for Biofuels</i> , 2019, 12, 151.	6.2	12

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19	Microalgae nourished by mariculture wastewater aids aquaculture self-reliance with desirable biochemical composition. <i>Bioresource Technology</i> , 2019, 278, 205-213.	4.8	31
20	Multiple anodic chambers sharing an algal raceway pond to establish a photosynthetic microbial fuel cell stack: Voltage boosting accompany wastewater treatment. <i>Water Research</i> , 2019, 164, 114955.	5.3	45
21	The seasonal and spatial variations in diatom communities and the influence of environmental factors on three temperate reservoirs in Shandong province, China. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24503-24515.	2.7	5
22	Chitosan for Direct Bioflocculation Processes. <i>Sustainable Agriculture Reviews</i> , 2019, , 335-380.	0.6	7
23	Filamentous cyanobacteria triples oil production in seawater-based medium supplemented with industrial waste: monosodium glutamate residue. <i>Biotechnology for Biofuels</i> , 2019, 12, 53.	6.2	19
24	Biofilm development dynamics and pollutant removal performance of ceramsite made from drinking water treatment sludge. <i>Water Environment Research</i> , 2019, 91, 616-627.	1.3	19
25	Impact of copper sulphate, potassium permanganate, and hydrogen peroxide on <i>Pseudanabaena galeata</i> cell integrity, release and degradation of 2-methylisoborneol. <i>Water Research</i> , 2019, 157, 64-73.	5.3	33
26	Coupling a photosynthetic microbial fuel cell (PMFC) with photobioreactors (PBRs) for pollutant removal and bioenergy recovery from anaerobically digested effluent. <i>Chemical Engineering Journal</i> , 2019, 359, 402-408.	6.6	36
27	Application of N-TiO <sub>2</sub> for visible-light photocatalytic degradation of <i>Cylindrospermopsis raciborskii</i> – More difficult than that for photodegradation of <i>Microcystis aeruginosa</i> ?. <i>Environmental Pollution</i> , 2019, 245, 642-650.	3.7	28
28	High-throughput sequencing reveals microbial communities in drinking water treatment sludge from six geographically distributed plants, including potentially toxic cyanobacteria and pathogens. <i>Science of the Total Environment</i> , 2018, 634, 769-779.	3.9	40
29	Growth of large-cell and easily-sedimentation microalgae <i>Golenkinia SDEC-16</i> for biofuel production and campus sewage treatment. <i>Renewable Energy</i> , 2018, 122, 517-525.	4.3	32
30	Using a tubular photosynthetic microbial fuel cell to treat anaerobically digested effluent from kitchen waste: Mechanisms of organics and ammonium removal. <i>Bioresource Technology</i> , 2018, 256, 11-16.	4.8	41
31	Dinoflagellate cyst abundance is positively correlated to sediment organic carbon in Sydney Harbour and Botany Bay, NSW, Australia. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5808-5821.	2.7	11
32	Mixing Seawater with a Little Wastewater to Produce Bioenergy from Limnetic Algae. <i>Trends in Biotechnology</i> , 2018, 36, 480-483.	4.9	17
33	Behavior of <i>Cylindrospermopsis raciborskii</i> during coagulation and sludge storage – higher potential risk of toxin release than <i>Microcystis aeruginosa</i> ?. <i>Journal of Hazardous Materials</i> , 2018, 347, 307-316.	6.5	28
34	Coupled microalgal cultivation with the treatment of domestic sewage and high-level CO <sub>2</sub> . <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1422-1429.	1.2	1
35	Phytohormone addition coupled with nitrogen depletion almost tripled the lipid productivities in two algae. <i>Bioresource Technology</i> , 2018, 247, 904-914.	4.8	86
36	Algal biofilm-assisted microbial fuel cell to enhance domestic wastewater treatment: Nutrient, organics removal and bioenergy production. <i>Chemical Engineering Journal</i> , 2018, 332, 277-285.	6.6	147

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37	Salinity-induced cellular cross-talk in carbon partitioning reveals starch-to-lipid biosynthesis switching in low-starch freshwater algae. <i>Bioresource Technology</i> , 2018, 250, 449-456.	4.8	90
38	Cultivation of microalgae using anaerobically digested effluent from kitchen waste as a nutrient source for biodiesel production. <i>Renewable Energy</i> , 2018, 115, 276-287.	4.3	100
39	Effects of air bubble size on algal growth rate and lipid accumulation using fine-pore diffuser photobioreactors. <i>Algal Research</i> , 2018, 32, 293-299.	2.4	17
40	The growth and lipid accumulation of <i>Scenedesmus quadricauda</i> during batch mixotrophic/heterotrophic cultivation using xylose as a carbon source. <i>Bioresource Technology</i> , 2018, 263, 525-531.	4.8	64
41	Primary investigation of the antialgal activity of shrimp shell on <i>Microcystis aeruginosa</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 20662-20669.	2.7	2
42	Phosphorus adsorption characteristics of alum sludge: Adsorption capacity and the forms of phosphorus retained in alum sludge. <i>Materials Letters</i> , 2018, 229, 31-35.	1.3	54
43	Use of fluorescence excitation-emission matrices coupled with parallel factor analysis to monitor C- and N-DBPs formation in drinking water recovered from cyanobacteria-laden sludge dewatering. <i>Science of the Total Environment</i> , 2018, 640-641, 609-618.	3.9	37
44	Using photocatalyst powder to enhance the coagulation and sedimentation of cyanobacterial cells and enable the sludge to be self-purified under visible light. <i>Water Research</i> , 2018, 143, 550-560.	5.3	20
45	The effects of algal extracellular substances on algal growth, metabolism and long-term medium recycle, and inhibition alleviation through ultrasonication. <i>Bioresource Technology</i> , 2018, 267, 192-200.	4.8	38
46	Lipid productivity in limnetic <i>Chlorella</i> is doubled by seawater added with anaerobically digested effluent from kitchen waste. <i>Biotechnology for Biofuels</i> , 2018, 11, 68.	6.2	36
47	Worse than cell lysis: The resilience of <i>Oscillatoria</i> sp. during sludge storage in drinking water treatment. <i>Water Research</i> , 2018, 142, 405-414.	5.3	24
48	Phytoplankton Functional Groups Variation and Influencing Factors in a Shallow Temperate Lake. <i>Water Environment Research</i> , 2018, 90, 510-519.	1.3	10
49	A promising application of chitosan quaternary ammonium salt to removal of <i>Microcystis aeruginosa</i> cells from drinking water. <i>Science of the Total Environment</i> , 2017, 583, 496-504.	3.9	63
50	Characteristics of water obtained by dewatering cyanobacteria-containing sludge formed during drinking water treatment, including C-, N-disinfection byproduct formation. <i>Water Research</i> , 2017, 111, 382-392.	5.3	33
51	Features of <i>Golenkinia</i> sp. and microbial fuel cells used for the treatment of anaerobically digested effluent from kitchen waste at different dilutions. <i>Bioresource Technology</i> , 2017, 240, 130-136.	4.8	29
52	The effects of combined agricultural phytohormones on the growth, carbon partitioning and cell morphology of two screened algae. <i>Bioresource Technology</i> , 2017, 239, 87-96.	4.8	71
53	The growth characteristics and biodiesel production of ten algae strains cultivated in anaerobically digested effluent from kitchen waste. <i>Algal Research</i> , 2017, 24, 265-275.	2.4	42
54	Toward facilitating microalgae cope with effluent from anaerobic digestion of kitchen waste: the art of agricultural phytohormones. <i>Biotechnology for Biofuels</i> , 2017, 10, 76.	6.2	37

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55	The enhanced reduction of C- and N-DBP formation in treatment of source water containing <i>Microcystis aeruginosa</i> using a novel CTSAC composite coagulant. <i>Science of the Total Environment</i> , 2017, 579, 1170-1178.	3.9	25
56	16S rRNA Gene Amplicon Sequencing Reveals Significant Changes in Microbial Compositions during Cyanobacteria-Laden Drinking Water Sludge Storage. <i>Environmental Science &amp; Technology</i> , 2017, 51, 12774-12783.	4.6	25
57	Using quartz sand to enhance the removal efficiency of <i>M. aeruginosa</i> by inorganic coagulant and achieve satisfactory settling efficiency. <i>Scientific Reports</i> , 2017, 7, 13586.	1.6	10
58	Biomass production and nutrient assimilation by a novel microalga, <i>Monoraphidium</i> spp. SDEC-17, cultivated in a high-ammonia wastewater. <i>Energy Conversion and Management</i> , 2016, 123, 423-430.	4.4	41
59	The lysis and regrowth of toxic cyanobacteria during storage of chitosan-aluminium chloride composite coagulated sludge: implications for drinking water sludge treatment. <i>RSC Advances</i> , 2016, 6, 112756-112764.	1.7	14
60	Adjusting irradiance to enhance growth and lipid production of <i>Chlorella vulgaris</i> cultivated with monosodium glutamate wastewater. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 619-624.	1.7	15
61	Effect of chitosan quaternary ammonium salt on the growth and microcystins release of <i>Microcystis aeruginosa</i> . <i>RSC Advances</i> , 2016, 6, 81028-81036.	1.7	9
62	Significantly enhanced dewatering performance of drinking water sludge from a coagulation process using a novel chitosan-aluminum chloride composite coagulant in the treatment of cyanobacteria-laden source water. <i>RSC Advances</i> , 2016, 6, 61047-61056.	1.7	16
63	Characterization of a microalgal mutant for CO <sub>2</sub> biofixation and biofuel production. <i>Energy Conversion and Management</i> , 2016, 122, 344-349.	4.4	23
64	The effect of algae species on the bioelectricity and biodiesel generation through open-air cathode microbial fuel cell with kitchen waste anaerobically digested effluent as substrate. <i>Bioresource Technology</i> , 2016, 218, 902-908.	4.8	58
65	Improving productivity and quality of biodiesel from <i>Chlorella vulgaris</i> SDEC-3M through customized process designs. <i>Energy Conversion and Management</i> , 2016, 129, 100-107.	4.4	15
66	Behaviors of <i>Microcystis aeruginosa</i> cells during floc storage in drinking water treatment process. <i>Scientific Reports</i> , 2016, 6, 34943.	1.6	27
67	Using a novel hydrogen-terminated porous Si wafer to enhance <i>Microcystis aeruginosa</i> effective removal by chitosan at a low dosage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 499, 88-96.	2.3	17
68	Inactivation of <i>Microcystis aeruginosa</i> by hydrogen-terminated porous Si wafer: Performance and mechanisms. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 158, 23-29.	1.7	23
69	Bioaugmentation in a pilot-scale constructed wetland to treat domestic wastewater in summer and autumn. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7776-7785.	2.7	18
70	Effect of high-temperature stress on microalgae at the end of the logarithmic phase for the efficient production of lipid. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2649-2657.	1.2	31
71	Beneficial changes in biomass and lipid of microalgae <i>Anabaena variabilis</i> facing the ultrasonic stress environment. <i>Bioresource Technology</i> , 2016, 209, 16-22.	4.8	44
72	Enhancing integrated removal of <i>Microcystis aeruginosa</i> and adsorption of microcystins using chitosan-aluminum chloride combined coagulants: Effect of chemical dosing orders and coagulation mechanisms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 490, 258-267.	2.3	35

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73	Mutual facilitations of food waste treatment, microbial fuel cell bioelectricity generation and <i>Chlorella vulgaris</i> lipid production. <i>Bioresource Technology</i> , 2016, 203, 50-55.	4.8	56
74	Effects of glucose on microcystin-LR removal and the bacterial community composition through anoxic biodegradation in drinking water sludge. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 64-73.	1.2	12
75	Seasonal pattern of cyanobacteria community and its relationship with environmental factors: a case study in Luoma Lake, East China. <i>Desalination and Water Treatment</i> , 2016, 57, 6658-6669.	1.0	7
76	Degradation mechanism of hydrogen-terminated porous silicon in the presence and in the absence of light. <i>AIP Advances</i> , 2015, 5, .	0.6	7
77	Optimization and lipid production enhancement of microalgae culture by efficiently changing the conditions along with the growth-state. <i>Energy Conversion and Management</i> , 2015, 90, 315-322.	4.4	64
78	Study of KOH/Al <sub>2</sub> O <sub>3</sub> as heterogeneous catalyst for biodiesel production via <i>in situ</i> transesterification from microalgae. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 622-627.	1.2	34
79	The fate of <i>Microcystis aeruginosa</i> cells during the ferric chloride coagulation and flocs storage processes. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 920-928.	1.2	45
80	The feasibility of using complex wastewater from a monosodium glutamate factory to cultivate <i>Spirulina subsals</i> and accumulate biochemical composition. <i>Bioresource Technology</i> , 2015, 180, 304-310.	4.8	56
81	Evaluation on the dewatering process of cyanobacteria-containing AlCl <sub>3</sub> and PACl drinking water sludge. <i>Separation and Purification Technology</i> , 2015, 150, 52-62.	3.9	26
82	Enhancing the photocatalytic activity of GaN by electrochemical etching. <i>Materials Research Bulletin</i> , 2015, 70, 881-886.	2.7	16
83	Variation of phytoplankton functional groups modulated by hydraulic controls in Hongze Lake, China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18163-18175.	2.7	33
84	Biomass and lipid accumulation of three new screened microalgae with high concentration of carbon dioxide and nitric oxide. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2278-2284.	1.2	7
85	Allelopathic effects of <i>Ailanthus altissima</i> extracts on <i>Microcystis aeruginosa</i> growth, physiological changes and microcystins release. <i>Chemosphere</i> , 2015, 141, 219-226.	4.2	60
86	Effect of diethyl aminoethyl hexanoate on the accumulation of high-value biocompounds produced by two novel isolated microalgae. <i>Bioresource Technology</i> , 2015, 197, 178-184.	4.8	42
87	Photodegradation activity and stability of porous silicon wafers with (1 0 0) and (1 1 1) oriented crystal planes. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 251-256.	2.2	17
88	Performance Evaluation of Light-Weight Aggregates-Based Horizontal Flow Constructed Wetlands for Domestic Wastewater Treatment. <i>Clean - Soil, Air, Water</i> , 2015, 43, 217-222.	0.7	8
89	<i>In situ</i> heterogeneous transesterification of microalgae using combined ultrasound and microwave irradiation. <i>Energy Conversion and Management</i> , 2015, 90, 41-46.	4.4	62
90	Integrated campus sewage treatment and biomass production by <i>Scenedesmus quadricauda</i> SDEC-13. <i>Bioresource Technology</i> , 2015, 175, 262-268.	4.8	44

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91	Denitrifying characterization and identification of a novel soil bacterium XP-2. <i>Desalination and Water Treatment</i> , 2014, 52, 6996-7003.	1.0	5
92	Nutrient removal and lipid accumulation properties of newly isolated microalgal strains. <i>Bioresource Technology</i> , 2014, 165, 38-41.	4.8	41
93	Growth and lipid accumulation properties of microalgal <i>Phaeodactylum tricornutum</i> under different gas liquid ratios. <i>Bioresource Technology</i> , 2014, 165, 31-37.	4.8	24
94	The removal of cyanobacteria and their metabolites through anoxic biodegradation in drinking water sludge. <i>Bioresource Technology</i> , 2014, 165, 191-198.	4.8	27
95	Identification and characterization of a freshwater microalga <i>Scenedesmus</i> SDEC-8 for nutrient removal and biodiesel production. <i>Bioresource Technology</i> , 2014, 162, 129-135.	4.8	44
96	Mixotrophic growth and biochemical analysis of <i>Chlorella vulgaris</i> cultivated with diluted monosodium glutamate wastewater. <i>Bioresource Technology</i> , 2014, 152, 471-476.	4.8	81
97	How to increase microbial degradation in constructed wetlands: Influencing factors and improvement measures. <i>Bioresource Technology</i> , 2014, 157, 316-326.	4.8	198
98	Effect of different plant species on nutrient removal and rhizospheric microorganisms distribution in horizontal-flow constructed wetlands. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 808-816.	1.2	32
99	Spatiotemporal distribution pattern of cyanobacteria community and its relationship with the environmental factors in Hongze Lake, China. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 6919-6933.	1.3	39
100	Phytoplankton variation and its relationship with the environmental factors in Nansi Lake, China. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 295-310.	1.3	34
101	Environmental factors influencing cyanobacteria community structure in Dongping Lake, China. <i>Journal of Environmental Sciences</i> , 2013, 25, 2196-2206.	3.2	31
102	Evaluation of the potential of 10 microalgal strains for biodiesel production. <i>Bioresource Technology</i> , 2013, 141, 245-251.	4.8	236
103	Variation of cyanobacteria with different environmental conditions in Nansi Lake, China. <i>Journal of Environmental Sciences</i> , 2012, 24, 1394-1402.	3.2	45
104	Notice of Retraction: Assessment of Trophic Status for Dongping Lake Using Comprehensive Trophic State Index and Diversity Indices. , 2011, , .		1
105	Assessment of Trophic Status for Nansi Lake Using Trophic State Index and Phytoplankton Community. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	1
106	The Effect of Mechanical Agitation on the Stripping of Bio-Film from Ceramic Particles. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	1
107	Nitrification Performance of a Pilot-Scale UBAF Treating Secondary Effluent of Municipal Sewage. , 2009, , .		0
108	Detection of amount and activity of living algae in fresh water by dehydrogenase activity (DHA). <i>Environmental Monitoring and Assessment</i> , 2008, 146, 473-478.	1.3	36

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109	Study on the Method of Detecting Dehydrogenase Activity of Living Algae in Fresh Water. , 2008, , .		0