

Chuan Chen

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.

122 papers	4,196 citations	38 h-index	61 g-index
136 ext. papers	5,152 ext. citations	8.6 avg, IF	5.83 L-index

#	Paper	IF	Citations
122	High-precision prediction of unionized hydrogen sulfide generation based on limited datasets and its impact on anaerobic digestion of sulfate-rich wastewater. <i>Journal of Cleaner Production</i> , 2022 , 341, 130875	10.3	0
121	Biological treatment of refractory pollutants in industrial wastewaters under aerobic or anaerobic condition: Batch tests and associated microbial community analysis. <i>Bioresource Technology Reports</i> , 2022 , 17, 100927	4.1	4
120	Why the cooperation of radical and non-radical pathways in PMS system leads to a higher efficiency than a single pathway in tetracycline degradation. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127247	12.8	9
119	Recent Advances in Autotrophic Biological Nitrogen Removal for Low Carbon Wastewater: A Review. <i>Water (Switzerland)</i> , 2022 , 14, 1101	3	0
118	Cryptic Sulfur and Oxygen Cycling Potentially Reduces NO-Driven Greenhouse Warming: Underlying Revision Need of the Nitrogen Cycle.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	1
117	Enhancement of methane production from waste activated sludge using hybrid microbial electrolysis cells-anaerobic digestion (MEC-AD) process-A review.. <i>Bioresource Technology</i> , 2021 , 346, 126641	11	1
116	The interaction between <i>Pseudomonas</i> C27 and <i>Thiobacillus denitrificans</i> in the integrated autotrophic and heterotrophic denitrification process.. <i>Science of the Total Environment</i> , 2021 , 811, 152360	10.2	2
115	Runoff control simulation and comprehensive benefit evaluation of low-impact development strategies in a typical cold climate area.. <i>Environmental Research</i> , 2021 , 112630	7.9	1
114	Simultaneous removal of NO and SO from flue gas in an integrated FGD-CABR system by sulfur cycling-mediated Fe(II)EDTA regeneration.. <i>Environmental Research</i> , 2021 , 205, 112541	7.9	2
113	Evaluating the effect of fenton pretreated pyridine wastewater under different biological conditions: Microbial diversity and biotransformation pathways. <i>Journal of Environmental Management</i> , 2021 , 287, 112297	7.9	5
112	Influence of microbial spatial distribution and activity in an EGSB reactor under high- and low-loading denitrification desulfurization. <i>Environmental Research</i> , 2021 , 195, 110311	7.9	4
111	Relationship between functional bacteria in a denitrification desulfurization system under autotrophic, heterotrophic, and mixotrophic conditions. <i>Water Research</i> , 2021 , 188, 116526	12.5	57
110	The underlying mechanism of enhanced methane production using microbial electrolysis cell assisted anaerobic digestion (MEC-AD) of proteins. <i>Water Research</i> , 2021 , 201, 117325	12.5	5
109	Simultaneous removal of carbon dioxide, sulfur dioxide and nitric oxide in a biofilter system: Optimization operating conditions, removal efficiency and bacterial community. <i>Chemosphere</i> , 2021 , 276, 130084	8.4	6
108	The synergistic effect of potassium ferrate and peroxymonosulfate application on biogas production and shaping microbial community during anaerobic co-digestion of a cow manure-cotton straw mixture. <i>Bioresource Technology</i> , 2021 , 333, 125166	11	4
107	The stimulating metabolic mechanisms response to sulfide and oxygen in typical heterotrophic sulfide-oxidizing nitrate-reducing bacteria <i>Pseudomonas</i> C27. <i>Bioresource Technology</i> , 2020 , 309, 123451	11	4
106	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

105	The performance of simultaneous denitrification and biogas desulfurization system for the treatment of domestic sewage. <i>Chemical Engineering Journal</i> , 2020 , 399, 125855	14.7	15
104	Enhanced lipid production by <i>Chlorella pyrenoidosa</i> through magnetic field pretreatment of wastewater and treatment of microalgae-wastewater culture solution: Magnetic field treatment modes and conditions. <i>Bioresource Technology</i> , 2020 , 306, 123102	11	12
103	Analyzing the inhibitory effect of metabolic uncoupler on bacterial initial attachment and biofilm development and the underlying mechanism. <i>Environmental Research</i> , 2020 , 185, 109390	7.9	5
102	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
101	Bioelectrochemical system for the enhancement of methane production by anaerobic digestion of alkaline pretreated sludge. <i>Bioresource Technology</i> , 2020 , 304, 123000	11	23
100	Heterotrophic sulfide-oxidizing nitrate-reducing bacteria enables the high performance of integrated autotrophic-heterotrophic denitrification (IAHD) process under high sulfide loading. <i>Water Research</i> , 2020 , 178, 115848	12.5	21
99	Enhanced methane production by alleviating sulfide inhibition with a microbial electrolysis coupled anaerobic digestion reactor. <i>Environment International</i> , 2020 , 136, 105503	12.9	21
98	The effect of PBS on methane production in combined MEC-AD system fed with alkaline pretreated sewage sludge. <i>Renewable Energy</i> , 2020 , 152, 229-236	8.1	12
97	Inhibition of biofouling in membrane bioreactor by metabolic uncoupler based on controlling microorganisms accumulation and quorum sensing signals secretion. <i>Chemosphere</i> , 2020 , 245, 125363	8.4	8
96	Performance of a novel IAHD-DSR process with methane and sulfide as co-electron donors. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121657	12.8	4
95	Enhancement of productivity of <i>Chlorella pyrenoidosa</i> lipids for biodiesel using co-culture with ammonia-oxidizing bacteria in municipal wastewater. <i>Renewable Energy</i> , 2020 , 151, 598-603	8.1	30
94	Revealing the role of adsorption in ciprofloxacin and sulfadiazine elimination routes in microalgae. <i>Water Research</i> , 2020 , 172, 115475	12.5	68
93	Single molecule sequencing reveals response of manganese-oxidizing microbiome to different biofilter media in drinking water systems. <i>Water Research</i> , 2020 , 171, 115424	12.5	12
92	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , 2020 , 187, 116390	12.5	70
91	Inhibition Effectiveness of Laser-Cleaned Nanostructured Aluminum Alloys to Sulfate-reducing Bacteria Based on Superwetting and Ultraslippery Surfaces.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6131-6144	4.1	3
90	Effects of cadmium on intestinal histology and microbiota in freshwater crayfish (<i>Procambarus clarkii</i>). <i>Chemosphere</i> , 2020 , 242, 125105	8.4	35
89	The microbial zonation of SRB and soNRB enhanced the performance of SR-DSR process under the micro-aerobic condition. <i>Environment International</i> , 2019 , 132, 105096	12.9	8
88	Hydrogen production efficiency and microbial community of ethanol-type fermentation. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 013105	2.5	2

87	Continuous sulfur biotransformation in an anaerobic-anoxic sequential batch reactor involving sulfate reduction and denitrifying sulfide oxidization. <i>Chemosphere</i> , 2019 , 234, 568-578	8.4	12
86	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
85	Effective removal of methyl siloxane from water by sewage activated sludge microbes: biodegradation behavior and characteristics of microbial community. <i>Bioresource Technology Reports</i> , 2019 , 7, 100209	4.1	1
84	Cadmium-induced oxidative stress, histopathology, and transcriptome changes in the hepatopancreas of freshwater crayfish (<i>Procambarus clarkii</i>). <i>Science of the Total Environment</i> , 2019 , 666, 944-955	10.2	41
83	Bioreactor performance and microbial community analysis of autotrophic denitrification under micro-aerobic condition. <i>Science of the Total Environment</i> , 2019 , 647, 914-922	10.2	33
82	Nitrogen and sulfur metabolisms of <i>Pseudomonas</i> sp. C27 under mixotrophic growth condition. <i>Bioresource Technology</i> , 2019 , 293, 122169	11	7
81	Microbial degradation of N,N-dimethylformamide by <i>Paracoccus</i> sp. strain DMF-3 from activated sludge. <i>Chemical Engineering Journal</i> , 2018 , 343, 324-330	14.7	40
80	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
79	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
78	Mitigating adverse impacts of varying sulfide/nitrate ratios on denitrifying sulfide removal process performance. <i>Bioresource Technology</i> , 2018 , 267, 782-788	11	9
77	Waste biorefineries - integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 101-110	11.4	94
76	Interaction of bacteria and archaea in a microbial fuel cell with ITO anode.. <i>RSC Advances</i> , 2018 , 8, 28487-28495	11.4	94
75	Response of the reactor performance and microbial community to a shift of ISDD process from micro-aerobic to anoxic condition. <i>Chemosphere</i> , 2018 , 212, 837-844	8.4	6
74	Interactions of functional bacteria and their contributions to the performance in integrated autotrophic and heterotrophic denitrification. <i>Water Research</i> , 2018 , 143, 355-366	12.5	69
73	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
72	Enhanced performance of denitrifying sulfide removal process at high carbon to nitrogen ratios under micro-aerobic condition. <i>Bioresource Technology</i> , 2017 , 232, 417-422	11	30
71	Efficiency of an upflow anaerobic sludge blanket reactor treating potato starch processing wastewater and related process kinetics, functional microbial community and sludge morphology. <i>Bioresource Technology</i> , 2017 , 239, 105-116	11	42
70	Adaptation of microbial community of the anode biofilm in microbial fuel cells to temperature. <i>Bioelectrochemistry</i> , 2017 , 117, 29-33	5.6	62

69	Pyrosequencing reveals microbial community dynamics in integrated simultaneous desulfurization and denitrification process at different influent nitrate concentrations. <i>Chemosphere</i> , 2017 , 171, 294-301	8.4	49
68	Decabrominated Diphenyl Ethers (BDE-209) in Chinese and Global Air: Levels, Gas/Particle Partitioning, and Long-Range Transport: Is Long-Range Transport of BDE-209 Really Governed by the Movement of Particles?. <i>Environmental Science & Technology</i> , 2017 , 51, 1035-1042	10.3	45
67	Pulse electromagnetic fields enhance extracellular electron transfer in magnetic bioelectrochemical systems. <i>Biotechnology for Biofuels</i> , 2017 , 10, 238	7.8	25
66	Characteristics of rumen microorganisms involved in anaerobic degradation of cellulose at various pH values. <i>RSC Advances</i> , 2017 , 7, 40303-40310	3.7	34
65	Performance and microbial community analysis of a microaerophilic sulfate and nitrate co-reduction system. <i>Chemical Engineering Journal</i> , 2017 , 330, 63-70	14.7	39
64	High-efficiency removal of lead from wastewater by biochar derived from anaerobic digestion sludge. <i>Bioresource Technology</i> , 2017 , 246, 142-149	11	145
63	Mathematical modeling of simultaneous carbon-nitrogen-sulfur removal from industrial wastewater. <i>Journal of Hazardous Materials</i> , 2017 , 321, 371-381	12.8	12
62	Anode biofilm communities and the performance of microbial fuel cells with different reactor configurations. <i>RSC Advances</i> , 2016 , 6, 85149-85155	3.7	7
61	Efficient regulation of elemental sulfur recovery through optimizing working height of upflow anaerobic sludge blanket reactor during denitrifying sulfide removal process. <i>Bioresource Technology</i> , 2016 , 200, 1019-23	11	33
60	Phthalate metabolites in urine of Chinese young adults: Concentration, profile, exposure and cumulative risk assessment. <i>Science of the Total Environment</i> , 2016 , 543, 19-27	10.2	72
59	Investigation of colloidal biogenic sulfur flocculation: Optimization using response surface analysis. <i>Journal of Environmental Sciences</i> , 2016 , 42, 227-235	6.4	24
58	The Detoxification and Degradation of Benzothiazole from the Wastewater in Microbial Electrolysis Cells. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13,	4.6	5
57	Multiple syntrophic interactions drive biohythane production from waste sludge in microbial electrolysis cells. <i>Biotechnology for Biofuels</i> , 2016 , 9, 162	7.8	67
56	Augmentation of protein-derived acetic acid production by heat-alkaline-induced changes in protein structure and conformation. <i>Water Research</i> , 2016 , 88, 595-603	12.5	31
55	p-Nitrophenol degradation and microbial community structure in a biocathode bioelectrochemical system. <i>RSC Advances</i> , 2016 , 6, 89821-89826	3.7	10
54	The screening of microalgae mutant strain <i>Scenedesmus</i> sp. Z-4 with a rich lipid content obtained by 60Co γ mutation. <i>RSC Advances</i> , 2015 , 5, 52057-52061	3.7	20
53	Hydrogen and lipid production from starch wastewater by co-culture of anaerobic sludge and oleaginous microalgae with simultaneous COD, nitrogen and phosphorus removal. <i>Water Research</i> , 2015 , 85, 404-12	12.5	72
52	Effect of temperature on treating chemical synthesis-based pharmaceutical wastewater containing 7-ACA by a novel multi-stage loop membrane bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1002-1012	3.5	6

51	Characterization of methane production and microbial community shifts during waste activated sludge degradation in microbial electrolysis cells. <i>Bioresource Technology</i> , 2015 , 175, 68-74	11	113
50	Sequential generation of hydrogen and lipids from starch by combination of dark fermentation and microalgal cultivation. <i>RSC Advances</i> , 2015 , 5, 76779-76782	3.7	8
49	Spatial nitrifications of microbial processes during composting of swine, cow and chicken manure. <i>Scientific Reports</i> , 2015 , 5, 14932	4.9	21
48	Probabilistic evaluation of integrating resource recovery into wastewater treatment to improve environmental sustainability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1630-5	11.5	62
47	Integrated simultaneous desulfurization and denitrification (ISDD) process at various COD/sulfate ratios. <i>Bioresource Technology</i> , 2014 , 155, 161-9	11	33
46	Performance of a novel HABRUFASR system for the biological treatment of mixed printing and dyeing wastewater (MPDW). <i>Desalination and Water Treatment</i> , 2014 , 52, 5553-5562		7
45	Enhanced lipid accumulation of green microalga <i>Scenedesmus</i> sp. by metal ions and EDTA addition. <i>Bioresource Technology</i> , 2014 , 169, 763-767	11	92
44	A dual-chamber reactor to assess the saccharification capability of the cellulytic microflora from straw waste. <i>RSC Advances</i> , 2014 , 4, 9617	3.7	
43	Bioreactor performance and functional gene analysis of microbial community in a limited-oxygen fed bioreactor for co-reduction of sulfate and nitrate with high organic input. <i>Journal of Hazardous Materials</i> , 2014 , 278, 250-7	12.8	42
42	Understanding the role of extracellular polymeric substances in an enhanced biological phosphorus removal granular sludge system. <i>Bioresource Technology</i> , 2014 , 169, 307-312	11	58
41	Effect of temperature switchover on the degradation of antibiotic chloramphenicol by biocathode bioelectrochemical system. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1689-97	6.4	29
40	Improvement of nitrification efficiency by bioaugmentation in sequencing batch reactors at low temperature. <i>Frontiers of Environmental Science and Engineering</i> , 2014 , 8, 937-944	5.8	9
39	Transformation of dissolved organic matters in swine, cow and chicken manures during composting. <i>Bioresource Technology</i> , 2014 , 168, 222-8	11	75
38	GeoChip-based analysis of the microbial community functional structures in simultaneous desulfurization and denitrification process. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1375-82	6.4	9
37	Performance and model of a novel multi-sparger multi-stage airlift loop membrane bioreactor to treat high-strength 7-ACA pharmaceutical wastewater: effect of hydraulic retention time, temperature and pH. <i>Bioresource Technology</i> , 2014 , 167, 241-50	11	15
36	Energy conversion analysis of microalgal lipid production under different culture modes. <i>Bioresource Technology</i> , 2014 , 166, 625-9	11	26
35	Optimization of ultrasonic pretreatment and substrate/inoculum ratio to enhance hydrolysis and volatile fatty acid production from food waste. <i>RSC Advances</i> , 2014 , 4, 53321-53326	3.7	23
34	Thermophilic hydrogen production from sludge pretreated by thermophilic bacteria: analysis of the advantages of microbial community and metabolism. <i>Bioresource Technology</i> , 2014 , 172, 433-437	11	32

33	Simultaneous nutrient removal and reduction in sludge from sewage waste using an alternating anaerobic–anoxic–microaerobic–aerobic system combining ozone/ultrasound technology. <i>RSC Advances</i> , 2014 , 4, 52892-52897	3.7	16
32	Enhanced energy conversion efficiency from high strength synthetic organic wastewater by sequential dark fermentative hydrogen production and algal lipid accumulation. <i>Bioresource Technology</i> , 2014 , 157, 355-9	11	41
31	Fine-tuning key parameters of an integrated reactor system for the simultaneous removal of COD, sulfate and ammonium and elemental sulfur reclamation. <i>Journal of Hazardous Materials</i> , 2014 , 269, 56-67	12.8	38
30	Microbial community functional structure in response to micro-aerobic conditions in sulfate-reducing sulfur-producing bioreactor. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1099-107	6.4	17
29	Sulfate-reduction, sulfide-oxidation and elemental sulfur bioreduction process: modeling and experimental validation. <i>Bioresource Technology</i> , 2013 , 147, 202-211	11	45
28	Autotrophic and heterotrophic denitrification by a newly isolated strain <i>Pseudomonas</i> sp. C27. <i>Bioresource Technology</i> , 2013 , 145, 351-6	11	55
27	Minimization of excess sludge production by in-situ activated sludge treatment processes--a comprehensive review. <i>Biotechnology Advances</i> , 2013 , 31, 1386-96	17.8	150
26	Sulfur-nitrogen-carbon removal of <i>Pseudomonas</i> sp. C27 under sulfide stress. <i>Enzyme and Microbial Technology</i> , 2013 , 53, 6-12	3.8	22
25	Fermentative hydrogen production from beet sugar factory wastewater treatment in a continuous stirred tank reactor using anaerobic mixed consortia. <i>Frontiers of Environmental Science and Engineering</i> , 2013 , 7, 143-150	5.8	15
24	Application of low frequency ultrasound to stimulate the bio-activity of activated sludge for use as an inoculum in enhanced hydrogen production. <i>RSC Advances</i> , 2013 , 3, 21848	3.7	20
23	Optimization of immobilization parameters of <i>Thermoanaerobacterium thermosaccharolyticum</i> W16 on a new carrier for enhanced hydrogen production. <i>RSC Advances</i> , 2012 , 2, 7391	3.7	12
22	Photo-hydrogen production by <i>Rhodospseudomonas faecalis</i> RLD-53 immobilized on the surface of modified activated carbon fibers. <i>RSC Advances</i> , 2012 , 2, 2225	3.7	19
21	Continuous photo-hydrogen production in anaerobic fluidized bed photo-reactor with activated carbon fiber as carrier. <i>RSC Advances</i> , 2012 , 2, 5531	3.7	16
20	Pyrosequencing reveals highly diverse microbial communities in microbial electrolysis cells involved in enhanced H ₂ production from waste activated sludge. <i>Water Research</i> , 2012 , 46, 2425-34	12.5	278
19	Enhanced elementary sulfur recovery in integrated sulfate-reducing, sulfur-producing reactor under micro-aerobic condition. <i>Bioresource Technology</i> , 2012 , 116, 517-21	11	58
18	Hydrogen production, methanogen inhibition and microbial community structures in psychrophilic single-chamber microbial electrolysis cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1329	35.4	136
17	Reduction of produced elementary sulfur in denitrifying sulfide removal process. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1129-36	5.7	17
16	Enhancing denitrifying sulfide removal with functional strains under micro-aerobic condition. <i>Process Biochemistry</i> , 2010 , 45, 1007-1010	4.8	26

15	Enhanced performance of denitrifying sulfide removal process under micro-aerobic condition. <i>Journal of Hazardous Materials</i> , 2010 , 179, 1147-51	12.8	38
14	Composition of extracellular polymeric substances influences the autoaggregation capability of hydrogen-producing bacterium <i>Ethanoligenens harbinense</i> . <i>Bioresource Technology</i> , 2009 , 100, 5109-13	11	29
13	High-rate denitrifying sulfide removal process in expanded granular sludge bed reactor. <i>Bioresource Technology</i> , 2009 , 100, 2316-9	11	83
12	Production of Biofloculant Using the Effluent from a Hydrogen-Producing Bioreactor and its Capacity of Wastewater Treatment 2008 ,		1
11	Simultaneous biological removal of sulfur, nitrogen and carbon using EGSB reactor. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 1057-63	5.7	109
10	Microbial community structure in different wastewater treatment processes characterized by single-strand conformation polymorphism (SSCP) technique. <i>Frontiers of Environmental Science and Engineering in China</i> , 2008 , 2, 116-121		2
9	Microbial community structure of ethanol type fermentation in bio-hydrogen production. <i>Environmental Microbiology</i> , 2007 , 9, 1112-25	5.2	162
8	Feasibility and simulation model of a pilot scale membrane bioreactor for wastewater treatment and reuse from Chinese traditional medicine. <i>Journal of Environmental Sciences</i> , 2007 , 19, 129-34	6.4	8
7	Cloning, expression, and characterization of an acetate kinase from a high rate of biohydrogen bacterial strain <i>Ethanoligenens</i> sp. hit B49. <i>Current Microbiology</i> , 2007 , 55, 167-72	2.4	13
6	Molecular characterization and fermentative hydrogen production of a wild anaerobe in clostridium genus. <i>Frontiers of Energy and Power Engineering in China</i> , 2007 , 1, 403-407		
5	Biological hydrogen production from organic wastewater with a novel strain B49 isolated from anaerobic sewage sludge. <i>Diqu Huaxue</i> , 2006 , 25, 153-153		
4	<i>Ethanoligenens harbinense</i> gen. nov., sp. nov., isolated from molasses wastewater. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006 , 56, 755-760	2.2	124
3	An innovative process of simultaneous desulfurization and denitrification by <i>Thiobacillus denitrificans</i> . <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 1939-49	2.3	78
2	Microbial Fuel Cell Technology for Sustainable Treatment of Organic Wastes and Electrical Energy Recovery	291-318	
1	Recent advances of algae-bacteria consortia in aquatic remediation. <i>Critical Reviews in Environmental Science and Technology</i> , 1-25	11.1	0