

Raymond Jianxiong Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

200
papers

7,542
citations

53660

45
h-index

85405

71
g-index

200
all docs

200
docs citations

200
times ranked

6387
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced volatile fatty acids (VFAs) production in a thermophilic fermenter with stepwise pH increase “ Investigation on dissolved organic matter transformation and microbial community shift. <i>Water Research</i> , 2017, 112, 261-268.	5.3	237
2	Removal of antibiotic resistance genes from wastewater treatment plant effluent by coagulation. <i>Water Research</i> , 2017, 111, 204-212.	5.3	219
3	Enhanced in situ biodegradation of microplastics in sewage sludge using hyperthermophilic composting technology. <i>Journal of Hazardous Materials</i> , 2020, 384, 121271.	6.5	180
4	Enhancing sludge methanogenesis with improved redox activity of extracellular polymeric substances by hematite in red mud. <i>Water Research</i> , 2018, 134, 54-62.	5.3	175
5	Phosphorus plays an important role in enhancing biodiesel productivity of <i>Chlorella vulgaris</i> under nitrogen deficiency. <i>Bioresource Technology</i> , 2013, 134, 341-346.	4.8	172
6	Fatty acids production from hydrogen and carbon dioxide by mixed culture in the membrane biofilm reactor. <i>Water Research</i> , 2013, 47, 6122-6129.	5.3	164
7	Recent developments of post-modification of biochar for electrochemical energy storage. <i>Bioresource Technology</i> , 2017, 246, 224-233.	4.8	160
8	Reactivity enhancement of iron sulfide nanoparticles stabilized by sodium alginate: Taking Cr (VI) removal as an example. <i>Journal of Hazardous Materials</i> , 2017, 333, 275-284.	6.5	144
9	Anode potentials regulate <i>Geobacter</i> biofilms: New insights from the composition and spatial structure of extracellular polymeric substances. <i>Water Research</i> , 2019, 159, 294-301.	5.3	123
10	Syntrophic growth with direct interspecies electron transfer between pili-free <i>Geobacter</i> species. <i>ISME Journal</i> , 2018, 12, 2142-2151.	4.4	104
11	Effect of nitrate and nitrite on the selection of microorganisms in the denitrifying anaerobic methane oxidation process. <i>Environmental Microbiology Reports</i> , 2011, 3, 315-319.	1.0	103
12	Quorum sensing signals enhance the electrochemical activity and energy recovery of mixed-culture electroactive biofilms. <i>Biosensors and Bioelectronics</i> , 2017, 97, 369-376.	5.3	103
13	Light-driven carbon dioxide reduction to methane by <i>Methanosarcina barkeri</i> -CdS biohybrid. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117916.	10.8	102
14	Humic substances as electron acceptors for anaerobic oxidation of methane driven by ANME-2d. <i>Water Research</i> , 2019, 164, 114935.	5.3	95
15	Applying rheological analysis to better understand the mechanism of acid conditioning on activated sludge dewatering. <i>Water Research</i> , 2017, 122, 398-406.	5.3	92
16	Effect of phosphorus on biodiesel production from <i>Scenedesmus obliquus</i> under nitrogen-deficiency stress. <i>Bioresource Technology</i> , 2014, 152, 241-246.	4.8	90
17	Bidirectional extracellular electron transfers of electrode-biofilm: Mechanism and application. <i>Bioresource Technology</i> , 2019, 271, 439-448.	4.8	88
18	Decoupling of DAMO archaea from DAMO bacteria in a methane-driven microbial fuel cell. <i>Water Research</i> , 2017, 110, 112-119.	5.3	86

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19	Simultaneous enrichment of denitrifying methanotrophs and anammox bacteria. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10211-10221.	1.7	83
20	Cr(VI) reduction coupled with anaerobic oxidation of methane in a laboratory reactor. <i>Water Research</i> , 2016, 102, 445-452.	5.3	80
21	Facilitated extracellular electron transfer of <i>Geobacter sulfurreducens</i> biofilm with in situ formed gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2018, 108, 20-26.	5.3	80
22	Biosynthesis of high yield fatty acids from <i>Chlorella vulgaris</i> NIES-227 under nitrogen starvation stress during heterotrophic cultivation. <i>Water Research</i> , 2015, 81, 294-300.	5.3	78
23	Degradation of Tetrabromobisphenol A by Sulfidated Nanoscale Zerovalent Iron in a Dynamic Two-Step Anoxic/Oxic Process. <i>Environmental Science & Technology</i> , 2019, 53, 8105-8114.	4.6	75
24	Microbial desalination cells with ion exchange resin packed to enhance desalination at low salt concentration. <i>Journal of Membrane Science</i> , 2012, 417-418, 28-33.	4.1	74
25	Iron reduction in the DAMO/ <i>Shewanella oneidensis</i> MR-1 coculture system and the fate of Fe(II). <i>Water Research</i> , 2016, 88, 808-815.	5.3	74
26	Design and evaluation of universal 16S rRNA gene primers for high-throughput sequencing to simultaneously detect DAMO microbes and anammox bacteria. <i>Water Research</i> , 2015, 87, 385-394.	5.3	68
27	Iron-carbon composite from carbonization of iron-crosslinked sodium alginate for Cr(VI) removal. <i>Chemical Engineering Journal</i> , 2019, 362, 21-29.	6.6	66
28	Electrochemical and spectroscopic insights into the mechanisms of bidirectional microbe-electrode electron transfer in <i>Geobacter soli</i> biofilms. <i>Electrochemistry Communications</i> , 2017, 77, 93-97.	2.3	65
29	Expanding the product spectrum of value added chemicals in microbial electrosynthesis through integrated process design—A review. <i>Bioresource Technology</i> , 2018, 269, 503-512.	4.8	65
30	Microbial electrochemical sensor for water biotoxicity monitoring. <i>Chemical Engineering Journal</i> , 2021, 404, 127053.	6.6	65
31	Anode potential-dependent protection of electroactive biofilms against metal ion shock via regulating extracellular polymeric substances. <i>Water Research</i> , 2020, 178, 115845.	5.3	63
32	Coupling glucose fermentation and homoacetogenesis for elevated acetate production: Experimental and mathematical approaches. <i>Biotechnology and Bioengineering</i> , 2011, 108, 345-353.	1.7	58
33	Simultaneous enrichment of denitrifying anaerobic methane-oxidizing microorganisms and anammox bacteria in a hollow-fiber membrane biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 437-446.	1.7	58
34	Microbial electrochemical stimulation of caproate production from ethanol and carbon dioxide. <i>Bioresource Technology</i> , 2020, 295, 122266.	4.8	57
35	Free acetic acid as the key factor for the inhibition of hydrogenotrophic methanogenesis in mesophilic mixed culture fermentation. <i>Bioresource Technology</i> , 2018, 264, 17-23.	4.8	55
36	Impact of dosing order of the coagulant and flocculant on sludge dewatering performance during the conditioning process. <i>Science of the Total Environment</i> , 2018, 643, 1065-1073.	3.9	55

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37	Conversion of syngas (CO and H ₂) to biochemicals by mixed culture fermentation in mesophilic and thermophilic hollow-fiber membrane biofilm reactors. <i>Journal of Cleaner Production</i> , 2018, 202, 536-542.	4.6	54
38	In Situ Preparation of Stabilized Iron Sulfide Nanoparticle-Impregnated Alginate Composite for Selenite Remediation. <i>Environmental Science & Technology</i> , 2018, 52, 6487-6496.	4.6	52
39	Novel Gas Diffusion Cloth Bioanodes for High-Performance Methane-Powered Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2019, 53, 530-538.	4.6	52
40	Microbial electrochemical platform for the production of renewable fuels and chemicals. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111922.	5.3	52
41	Hydrogen supersaturation in thermophilic mixed culture fermentation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17809-17816.	3.8	51
42	Gas controlled hydrogen fermentation. <i>Bioresource Technology</i> , 2012, 110, 503-509.	4.8	50
43	High-purity propionate production from glycerol in mixed culture fermentation. <i>Bioresource Technology</i> , 2016, 219, 659-667.	4.8	49
44	Hollow fiber membrane bioreactor affects microbial community and morphology of the DAMO and Anammox co-culture system. <i>Bioresource Technology</i> , 2017, 232, 247-253.	4.8	48
45	Alkali production from bipolar membrane electrodialysis powered by microbial fuel cell and application for biogas upgrading. <i>Applied Energy</i> , 2013, 103, 428-434.	5.1	47
46	New primers for detecting and quantifying denitrifying anaerobic methane oxidation archaea in different ecological niches. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9805-9812.	1.7	46
47	Investigation of Cr(VI) reduction potential and mechanism by <i>Caldicellulosiruptor saccharolyticus</i> under glucose fermentation condition. <i>Journal of Hazardous Materials</i> , 2018, 344, 585-592.	6.5	46
48	<i>Geobacter soli</i> sp. nov., a dissimilatory Fe(III)-reducing bacterium isolated from forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3786-3791.	0.8	44
49	Electron shuttles enhance anaerobic oxidation of methane coupled to iron(III) reduction. <i>Science of the Total Environment</i> , 2019, 688, 664-672.	3.9	44
50	High-rate anaerobic decolorization of methyl orange from synthetic azo dye wastewater in a methane-based hollow fiber membrane bioreactor. <i>Journal of Hazardous Materials</i> , 2020, 388, 121753.	6.5	44
51	Photochemical Behavior of Microbial Extracellular Polymeric Substances in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2021, 55, 15090-15099.	4.6	44
52	In situ hydrogen utilization for high fraction acetate production in mixed culture hollow-fiber membrane biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10233-10240.	1.7	43
53	A modified metabolic model for mixed culture fermentation with energy conserving electron bifurcation reaction and metabolite transport energy. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1884-1894.	1.7	43
54	Characterization of anaerobic granular sludge using a rheological approach. <i>Water Research</i> , 2016, 106, 116-125.	5.3	43

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55	Environmental evaluation of coexistence of denitrifying anaerobic methane-oxidizing archaea and bacteria in a paddy field. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 439-446.	1.7	43
56	Chitin degradation and electricity generation by <i>Aeromonas hydrophila</i> in microbial fuel cells. <i>Chemosphere</i> , 2017, 168, 293-299.	4.2	43
57	Fast Light-Driven Biodecolorization by a <i>Geobacter sulfurreducens</i> "CdS Biohybrid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15427-15433.	3.2	43
58	Zinc: A promising material for electrocatalyst-assisted microbial electrosynthesis of carboxylic acids from carbon dioxide. <i>Water Research</i> , 2019, 159, 87-94.	5.3	43
59	Mn ₃ O ₄ Nanozyme Coating Accelerates Nitrate Reduction and Decreases N ₂ O Emission during Photoelectrotrophic Denitrification by <i>Thiobacillus denitrificans</i> -CdS. <i>Environmental Science & Technology</i> , 2020, 54, 10820-10830.	4.6	43
60	Caproate production from xylose by mesophilic mixed culture fermentation. <i>Bioresource Technology</i> , 2020, 308, 123318.	4.8	43
61	Enhancement of FAME productivity of <i>Scenedesmus obliquus</i> by combining nitrogen deficiency with sufficient phosphorus supply in heterotrophic cultivation. <i>Applied Energy</i> , 2015, 158, 348-354.	5.1	42
62	Nitrogen source effects on the denitrifying anaerobic methane oxidation culture and anaerobic ammonium oxidation bacteria enrichment process. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 3895-3906.	1.7	41
63	Electro-fermentation regulates mixed culture chain elongation with fresh and acclimated cathode. <i>Energy Conversion and Management</i> , 2020, 204, 112285.	4.4	41
64	Combining nitrogen starvation with sufficient phosphorus supply for enhanced biodiesel productivity of <i>Chlorella vulgaris</i> fed on acetate. <i>Algal Research</i> , 2016, 17, 261-267.	2.4	40
65	Biogenic FeS accelerates reductive dechlorination of carbon tetrachloride by <i>Shewanella putrefaciens</i> CN32. <i>Enzyme and Microbial Technology</i> , 2016, 95, 236-241.	1.6	40
66	Light-driven carbon dioxide reduction to methane by <i>Methanosarcina barkeri</i> in an electric syntrophic coculture. <i>ISME Journal</i> , 2022, 16, 370-377.	4.4	40
67	Enhancement of acetate productivity in a thermophilic (55Â°C) hollow-fiber membrane biofilm reactor with mixed culture syngas (H ₂ /CO ₂) fermentation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2619-2627.	1.7	39
68	Mechanisms of nitrous oxide emission during photoelectrotrophic denitrification by self-photosensitized <i>Thiobacillus denitrificans</i> . <i>Water Research</i> , 2020, 172, 115501.	5.3	39
69	Simultaneous production of acetate and methane from glycerol by selective enrichment of hydrogenotrophic methanogens in extreme-thermophilic (70 Â°C) mixed culture fermentation. <i>Applied Energy</i> , 2015, 148, 326-333.	5.1	38
70	Stable acetate production in extreme-thermophilic (70Â°C) mixed culture fermentation by selective enrichment of hydrogenotrophic methanogens. <i>Scientific Reports</i> , 2014, 4, 5268.	1.6	38
71	Characterization of microbial compositions in a thermophilic chemostat of mixed culture fermentation. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1511-1521.	1.7	38
72	Tracking the activity of the Anammox-DAMO process using excitation-emission matrix (EEM) fluorescence spectroscopy. <i>Water Research</i> , 2017, 122, 624-632.	5.3	38

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73	Chromium isotope fractionation during Cr(VI) reduction in a methane-based hollow-fiber membrane biofilm reactor. <i>Water Research</i> , 2018, 130, 263-270.	5.3	38
74	A rheological approach to analyze aerobic granular sludge. <i>Water Research</i> , 2014, 50, 171-178.	5.3	37
75	Submersible probe type microbial electrochemical sensor for volatile fatty acids monitoring in the anaerobic digestion process. <i>Journal of Cleaner Production</i> , 2019, 232, 1371-1378.	4.6	37
76	Synergetic alginate conversion by a microbial consortium of hydrolytic bacteria and methanogens. <i>Water Research</i> , 2019, 163, 114892.	5.3	36
77	Different DHA or EPA production responses to nutrient stress in the marine microalga <i>Tisochrysis lutea</i> and the freshwater microalga <i>Monodus subterraneus</i> . <i>Science of the Total Environment</i> , 2019, 656, 140-149.	3.9	36
78	Evaluation on factors influencing the heterotrophic growth on the soluble microbial products of autotrophs. <i>Biotechnology and Bioengineering</i> , 2011, 108, 804-812.	1.7	35
79	H ₂ production by the thermoelectric microconverter coupled with microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22760-22768.	3.8	35
80	Microbially induced calcium carbonate precipitation driven by ureolysis to enhance oil recovery. <i>RSC Advances</i> , 2017, 7, 37382-37391.	1.7	35
81	Long solid retention time (SRT) has minor role in promoting methane production in a 65 °C single-stage anaerobic sludge digester. <i>Bioresource Technology</i> , 2018, 247, 724-729.	4.8	34
82	Impacts of medium composition and applied current on recovery of volatile fatty acids during coupling of electrodialysis with an anaerobic digester. <i>Journal of Cleaner Production</i> , 2019, 207, 483-489.	4.6	34
83	Production of chemicals in thermophilic mixed culture fermentation: mechanism and strategy. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1-30.	6.6	34
84	Efficient Photoelectron Capture by Ni Decoration in <i>Methanosarcina barkeri</i> -CdS Biohybrids for Enhanced Photocatalytic CO ₂ -to-CH ₄ Conversion. <i>IScience</i> , 2020, 23, 101287.	1.9	34
85	In-situ biogas sparging enhances the performance of an anaerobic membrane bioreactor (AnMBR) with mesh filter in low-strength wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6081-6089.	1.7	33
86	Biomimetic Regulation of Microbially Induced Calcium Carbonate Precipitation Involving Immobilization of <i>Sporosarcina pasteurii</i> by Sodium Alginate. <i>Crystal Growth and Design</i> , 2017, 17, 1854-1862.	1.4	33
87	Hydraulic retention time affects stable acetate production from tofu processing wastewater in extreme-thermophilic (70 °C) mixed culture fermentation. <i>Bioresource Technology</i> , 2016, 216, 722-728.	4.8	32
88	Valuable biochemical production in mixed culture fermentation: fundamentals and process coupling. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6575-6586.	1.7	32
89	Degradation of organic pollutants by anaerobic methane-oxidizing microorganisms using methyl orange as example. <i>Journal of Hazardous Materials</i> , 2019, 364, 264-271.	6.5	32
90	Waste C ₁ Gases as Alternatives to Pure CO ₂ Improved the Microbial Electrosynthesis of C ₄ and C ₆ Carboxylates. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8773-8782.	3.2	32

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91	The content of trace element iron is a key factor for competition between anaerobic ammonium oxidation and methane-dependent denitrification processes. <i>Chemosphere</i> , 2018, 198, 370-376.	4.2	30
92	Electricity from anaerobic methane oxidation by a single methanogenic archaeon <i>Methanosarcina barkeri</i> . <i>Chemical Engineering Journal</i> , 2021, 405, 126691.	6.6	30
93	Constructing N, P-dually doped biochar materials from biomass wastes for high-performance bifunctional oxygen electrocatalysts. <i>Chemosphere</i> , 2021, 278, 130508.	4.2	30
94	Applying rheological analysis to understand the mechanism of polyacrylamide (PAM) conditioning for sewage sludge dewatering. <i>RSC Advances</i> , 2017, 7, 30274-30282.	1.7	29
95	Advanced phosphorus recovery using a novel SBR system with granular sludge in simultaneous nitrification, denitrification and phosphorus removal process. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 4367-4374.	1.7	28
96	Preparation of high performance supercapacitor materials by fast pyrolysis of corn gluten meal waste. <i>Sustainable Energy and Fuels</i> , 2017, 1, 891-898.	2.5	28
97	Electricity production and microbial characterization of thermophilic microbial fuel cells. <i>Bioresource Technology</i> , 2017, 243, 512-519.	4.8	27
98	Tunable production of ethanol and acetate from synthesis gas by mesophilic mixed culture fermentation in a hollow fiber membrane biofilm reactor. <i>Journal of Cleaner Production</i> , 2018, 187, 165-170.	4.6	27
99	Effects of nitrogen and phosphorous stress on the formation of high value LC-PUFAs in <i>Porphyridium cruentum</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5763-5773.	1.7	27
100	Mass transfer affects reactor performance, microbial morphology, and community succession in the methane-dependent denitrification and anaerobic ammonium oxidation co-culture. <i>Science of the Total Environment</i> , 2019, 651, 291-297.	3.9	27
101	Hydrogen supersaturation in extreme-thermophilic (70°C) mixed culture fermentation. <i>Applied Energy</i> , 2013, 109, 213-219.	5.1	26
102	FAMEs production from <i>Scenedesmus obliquus</i> in autotrophic, heterotrophic and mixotrophic cultures under different nitrogen conditions. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 461-468.	1.2	26
103	Fundamentals and potential environmental significance of denitrifying anaerobic methane oxidizing archaea. <i>Science of the Total Environment</i> , 2021, 757, 143928.	3.9	26
104	The role of paraffin oil on the interaction between denitrifying anaerobic methane oxidation and Anammox processes. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7925-7936.	1.7	25
105	Homogeneous activation of peroxymonosulfate using a low-dosage cross-bridged cyclam manganese(II) complex for organic pollutant degradation via a nonradical pathway. <i>Journal of Hazardous Materials</i> , 2020, 394, 122560.	6.5	25
106	Metal-Free Semiconductor-Based Bio-Nano Hybrids for Sustainable CO ₂ Conversion with High Quantum Yield. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
107	Hydrogen and carbon dioxide mixed culture fermentation in a hollow-fiber membrane biofilm reactor at 25°C. <i>Bioresource Technology</i> , 2018, 249, 659-665.	4.8	24
108	No difference in inhibition among free acids of acetate, propionate and butyrate on hydrogenotrophic methanogen of <i>Methanobacterium formicicum</i> . <i>Bioresource Technology</i> , 2019, 294, 122237.	4.8	24

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109	High fatty acid productivity from <i>Scenedesmus obliquus</i> in heterotrophic cultivation with glucose and soybean processing wastewater via nitrogen and phosphorus regulation. <i>Science of the Total Environment</i> , 2020, 708, 134596.	3.9	24
110	A slurry electrode integrated with membrane electrolysis for high-performance acetate production in microbial electrosynthesis. <i>Science of the Total Environment</i> , 2020, 741, 140198.	3.9	24
111	Comprehensive investigation of the relationship between organic content and waste activated sludge dewaterability. <i>Journal of Hazardous Materials</i> , 2020, 394, 122547.	6.5	24
112	Effects of Fe(II) on anammox community activity and physiologic response. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	23
113	Microbial Electrosynthesis for Producing Medium Chain Fatty Acids. <i>Engineering</i> , 2022, 16, 141-153.	3.2	23
114	Genome sequence of a dissimilatory Fe(III)-reducing bacterium <i>Geobacter soli</i> type strain GSS01T. <i>Standards in Genomic Sciences</i> , 2015, 10, 118.	1.5	22
115	Decolorization by <i>Caldicellulosiruptor saccharolyticus</i> with dissolved hydrogen under extreme thermophilic conditions. <i>Chemical Engineering Journal</i> , 2015, 262, 847-853.	6.6	22
116	Role of extracellular polymeric substances in efficient chromium(VI) removal by algae-based Fe/C nano-composite. <i>Chemosphere</i> , 2018, 211, 608-616.	4.2	22
117	Microbial selenite reduction coupled to anaerobic oxidation of methane. <i>Science of the Total Environment</i> , 2019, 669, 168-174.	3.9	22
118	Photoinduced water oxidation catalyzed by a double-helical dicobalt(Co^{II}) sexipyridine complex. <i>Chemical Communications</i> , 2014, 50, 14956-14959.	2.2	21
119	A Novel Approach for Phosphorus Recovery and No Wasted Sludge in Enhanced Biological Phosphorus Removal Process with External COD Addition. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 820-828.	1.4	21
120	Decolorization of Acid Orange 7 by extreme-thermophilic mixed culture. <i>Bioresource Technology</i> , 2019, 291, 121875.	4.8	21
121	The performance and microbial communities of an anaerobic membrane bioreactor for treating fluctuating 2-chlorophenol wastewater. <i>Bioresource Technology</i> , 2020, 317, 124001.	4.8	21
122	Biophotocatalysis for renewable energy and environmental applications. <i>IScience</i> , 2021, 24, 102828.	1.9	21
123	In-situ sludge pretreatment in a single-stage anaerobic digester. <i>Bioresource Technology</i> , 2017, 238, 102-108.	4.8	20
124	Power to hydrogen-oxidizing bacteria: Effect of current density on bacterial activity and community spectra. <i>Journal of Cleaner Production</i> , 2020, 263, 121596.	4.6	20
125	Bioelectrochemical Fixation of Nitrogen to Extracellular Ammonium by <i>Pseudomonas stutzeri</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0199820.	1.4	20
126	Effects of sewage sludge pretreatment methods on its use in agricultural applications. <i>Journal of Hazardous Materials</i> , 2022, 428, 128213.	6.5	20

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127	Dissolved Organic Matter Acting as a Microbial Photosensitizer Drives Photoelectrotrophic Denitrification. <i>Environmental Science & Technology</i> , 2022, 56, 4632-4641.	4.6	20
128	Bioelectrochemically enhanced degradation of bisphenol S: mechanistic insights from stable isotope-assisted investigations. <i>IScience</i> , 2021, 24, 102014.	1.9	19
129	Micro-microbial electrochemical sensor equipped with combined bioanode and biocathode for water biotoxicity monitoring. <i>Bioresource Technology</i> , 2021, 326, 124743.	4.8	19
130	Herbicide promotes the conjugative transfer of multi-resistance genes by facilitating cellular contact and plasmid transfer. <i>Journal of Environmental Sciences</i> , 2022, 115, 363-373.	3.2	19
131	Catalytic oxidation of alkanes by a (salen)osmium(ν) nitrido complex using H_2O_2 as the terminal oxidant. <i>Chemical Communications</i> , 2015, 51, 13686-13689.	2.2	18
132	Multiple response optimization of the coagulation process for upgrading the quality of effluent from municipal wastewater treatment plant. <i>Scientific Reports</i> , 2016, 6, 26115.	1.6	18
133	Transcriptomic, Proteomic, and Bioelectrochemical Characterization of an Exoelectrogen <i>Geobacter soli</i> Grown With Different Electron Acceptors. <i>Frontiers in Microbiology</i> , 2018, 9, 1075.	1.5	18
134	Hydrogen production from a thermophilic alkaline waste activated sludge fermenter: Effects of solid retention time (SRT). <i>Chemosphere</i> , 2018, 206, 101-106.	4.2	18
135	Effects of nitrate and water content on acetylene inhibition technique bias when analysing soil denitrification rates under an aerobic atmosphere. <i>Geoderma</i> , 2019, 334, 33-36.	2.3	17
136	Enhanced Methane Recovery from Waste-Activated Sludge by Alginate-Degrading Consortia: The Overlooked Role of Alginate in Extracellular Polymeric Substances. <i>Environmental Science and Technology Letters</i> , 2021, 8, 86-91.	3.9	17
137	Mixotrophic Cultivation of Microalgae Using Biogas as the Substrate. <i>Environmental Science & Technology</i> , 2022, 56, 3669-3677.	4.6	17
138	Caproate production from xylose via the fatty acid biosynthesis pathway by genus <i>Caproiciproducens</i> dominated mixed culture fermentation. <i>Bioresource Technology</i> , 2022, 351, 126978.	4.8	17
139	Efficient production of medium chain fatty acids in microbial electrosynthesis with simultaneous bio-utilization of carbon dioxide and ethanol. <i>Bioresource Technology</i> , 2022, 352, 127101.	4.8	17
140	The chemostat study of metabolic distribution in extreme-thermophilic (70 $^{\circ}$ C) mixed culture fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10267-10273.	1.7	16
141	Design and characterization of a microbial self-healing gel for enhanced oil recovery. <i>RSC Advances</i> , 2017, 7, 2578-2586.	1.7	16
142	Effect of cultivation mode on the production of docosahexaenoic acid by <i>Tisochrysis lutea</i> . <i>AMB Express</i> , 2018, 8, 50.	1.4	16
143	Selective degradation of estrogens by a robust iron(III) complex bearing a cross-bridged cyclam ligand via iron(V)-oxo species. <i>Chemical Engineering Journal</i> , 2019, 378, 122223.	6.6	16
144	Polyphosphate during the Regreening of <i>Chlorella vulgaris</i> under Nitrogen Deficiency. <i>International Journal of Molecular Sciences</i> , 2015, 16, 23355-23368.	1.8	15

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145	Role of sufficient phosphorus in biodiesel production from diatom <i>Phaeodactylum tricornutum</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6927-6934.	1.7	15
146	Mixed culture fermentation of synthesis gas in the microfiltration and ultrafiltration hollow-fiber membrane biofilm reactors. <i>Bioresource Technology</i> , 2018, 267, 650-656.	4.8	15
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