

Raymond Jianxiong Zeng

List of Publications by Year in descending order

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200
papers

7,542
citations

53660

45
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85405

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200
all docs

200
docs citations

200
times ranked

6387
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow-Electrode Microbial Electrosynthesis for Increasing Production Rates and Lowering Energy Consumption. <i>Engineering</i> , 2023, 25, 157-167.	3.2	6
2	Acid Orange 7 degradation using methane as the sole carbon source and electron donor. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	3
3	Electricity-driven ammonia oxidation and acetate production in microbial electrosynthesis systems. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	14
4	Microbial Electrosynthesis for Producing Medium Chain Fatty Acids. <i>Engineering</i> , 2022, 16, 141-153.	3.2	23
5	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
6	Elucidating the production and inhibition of melanoidins products on anaerobic digestion after thermal-alkaline pretreatment. <i>Journal of Hazardous Materials</i> , 2022, 424, 127377.	6.5	12
7	Indicators of water biotoxicity obtained from turn-off microbial electrochemical sensors. <i>Chemosphere</i> , 2022, 286, 131725.	4.2	6
8	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
9	Acetate and electricity generation from methane in conductive fiber membrane- microbial fuel cells. <i>Science of the Total Environment</i> , 2022, 804, 150147.	3.9	8
10	Controlling volatile fatty acids production from waste activated sludge by an alginate-degrading consortium. <i>Science of the Total Environment</i> , 2022, 806, 150730.	3.9	10
11	Effects of sewage sludge pretreatment methods on its use in agricultural applications. <i>Journal of Hazardous Materials</i> , 2022, 428, 128213.	6.5	20
12	A unified operating procedure is crucial to evaluate sludge dewaterability, taking the setup of refrigerated storage time as an example. <i>Journal of Environmental Management</i> , 2022, 307, 114528.	3.8	5
13	Facile synthesis of compact CdS/CuS heterostructures for optimal CO ₂ -to-syngas photoconversion. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2150-2160.	3.0	7
14	Anthraquinone-2-Sulfonate as a Microbial Photosensitizer and Capacitor Drives Solar-to-N ₂ O Production with a Quantum Efficiency of Almost Unity. <i>Environmental Science & Technology</i> , 2022, 56, 5161-5169.	4.6	8
15	Dissolved Organic Matter Acting as a Microbial Photosensitizer Drives Photoelectrotrophic Denitrification. <i>Environmental Science & Technology</i> , 2022, 56, 4632-4641.	4.6	20
16	Mixotrophic Cultivation of Microalgae Using Biogas as the Substrate. <i>Environmental Science & Technology</i> , 2022, 56, 3669-3677.	4.6	17
17	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
18	A rechargeable microbial electrochemical sensor for water biotoxicity monitoring. <i>Biosensors and Bioelectronics: X</i> , 2022, 10, 100132.	0.9	3

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19	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
20	Reinterpretation of the mechanism of coagulation and its effects in waste activated sludge treatment. <i>Separation and Purification Technology</i> , 2022, 291, 120958.	3.9	7
21	Metal nanoparticles increased the lag period and shaped the microbial community in slurry-electrode microbial electrosynthesis. <i>Science of the Total Environment</i> , 2022, 838, 156008.	3.9	5
22	Metal-Free Semiconductor-Based Bio-Nano Hybrids for Sustainable CO ₂ to CH ₄ Conversion with High Quantum Yield. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
23	Electricity production and key exoelectrogens in a mixed-culture psychrophilic microbial fuel cell at 4Å°C. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4801-4811.	1.7	6
24	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
25	Microbial electrochemical sensor for water biotoxicity monitoring. <i>Chemical Engineering Journal</i> , 2021, 404, 127053.	6.6	65
26	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
27	Nanoscale zero-valent iron-modified PVDF membrane prepared by a simple filter-press coating method can robustly remove 2-chlorophenol from wastewater. <i>Chemical Engineering Journal</i> , 2021, 416, 127701.	6.6	11
28	Bioelectrochemical Fixation of Nitrogen to Extracellular Ammonium by <i>Pseudomonas stutzeri</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0199820.	1.4	20
29	Two-stage enrichment of hydrogen-oxidizing bacteria as biofertilizers. <i>Chemosphere</i> , 2021, 266, 128932.	4.2	8
30	In situ prepared algae-supported iron sulfide to remove hexavalent chromium. <i>Environmental Pollution</i> , 2021, 274, 115831.	3.7	6
31	Fundamentals and potential environmental significance of denitrifying anaerobic methane oxidizing archaea. <i>Science of the Total Environment</i> , 2021, 757, 143928.	3.9	26
32	Supplementary In-Depth Analysis of the Waste Activated Sludge Dewatering Process Using a Rheological Analysis. <i>ACS ES&T Engineering</i> , 2021, 1, 289-297.	3.7	6
33	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
34	Bioelectrochemically enhanced degradation of bisphenol S: mechanistic insights from stable isotope-assisted investigations. <i>IScience</i> , 2021, 24, 102014.	1.9	19
35	Micro-microbial electrochemical sensor equipped with combined bioanode and biocathode for water biotoxicity monitoring. <i>Bioresource Technology</i> , 2021, 326, 124743.	4.8	19
36	Rechargeable microbial fuel cell based on bidirectional extracellular electron transfer. <i>Bioresource Technology</i> , 2021, 329, 124887.	4.8	14

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37	Successful, Combined Long-term Treatment of Cerebral Candidiasis and Aspergillosis in a Liver Transplant Recipient: A Case Report. <i>Transplantation Proceedings</i> , 2021, 53, 2588-2593.	0.3	3
38	Biophotoelectrochemistry for renewable energy and environmental applications. <i>IScience</i> , 2021, 24, 102828.	1.9	21
39	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
40	Highly Selective Fermentation of Waste-Activated Sludge by Alginate-Degrading Consortia. <i>ACS ES&T Engineering</i> , 2021, 1, 1606-1617.	3.7	10
41	Photochemical Behavior of Microbial Extracellular Polymeric Substances in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2021, 55, 15090-15099.	4.6	44
42	Decoupling mechanism of Acid Orange 7 decolorization and sulfate reduction by a <i>Caldanaerobacter</i> dominated extreme-thermophilic consortium. <i>Journal of Hazardous Materials</i> , 2021, 419, 126498.	6.5	6
43	Constraining nitrification by intermittent aeration to achieve methane-driven ammonia recovery of the mainstream anaerobic effluent. <i>Journal of Environmental Management</i> , 2021, 295, 113103.	3.8	4
44	A facile and fast strategy for cathodic electroactive-biofilm assembly via magnetic nanoparticle bioconjugation. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113464.	5.3	10
45	Identification of Extracellular Key Enzyme and Intracellular Metabolic Pathway in Alginate-Degrading Consortia via an Integrated Metaproteomic/Metagenomic Analysis. <i>Environmental Science & Technology</i> , 2021, 55, 16636-16645.	4.6	15
46	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
47	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
48	Microbial electrochemical stimulation of caproate production from ethanol and carbon dioxide. <i>Bioresource Technology</i> , 2020, 295, 122266.	4.8	57
49	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
50	Effect of ferric ions on the anaerobic bio-dissolution of jarosites by <i>Acidithiobacillus ferrooxidans</i> . <i>Science of the Total Environment</i> , 2020, 710, 136334.	3.9	9
51	Microbial electrochemical platform for the production of renewable fuels and chemicals. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111922.	5.3	52
52	Electro-fermentation regulates mixed culture chain elongation with fresh and acclimated cathode. <i>Energy Conversion and Management</i> , 2020, 204, 112285.	4.4	41
53	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
54	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

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55	The indispensable role of assimilation in methane driven nitrate removal. <i>Science of the Total Environment</i> , 2020, 746, 141089.	3.9	14
56	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
57	Stimulation of methane production from benzoate with addition of carbon materials. <i>Science of the Total Environment</i> , 2020, 723, 138080.	3.9	15
58	Electricity production and microbial community in psychrophilic microbial fuel cells at 10Â°C. <i>Bioresource Technology</i> , 2020, 313, 123680.	4.8	15
59	Enrichment of hydrogen-oxidizing bacteria with nitrate recovery as biofertilizers in the mixed culture. <i>Bioresource Technology</i> , 2020, 313, 123645.	4.8	15
60	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
61	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
62	Effect of inorganic carbon limitation on the conversion of organic carbon to total fatty acids by <i>Monodus subterraneus</i> . <i>Science of the Total Environment</i> , 2020, 737, 140275.	3.9	9
63	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
64	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
65	Caproate production from xylose by mesophilic mixed culture fermentation. <i>Bioresource Technology</i> , 2020, 308, 123318.	4.8	43
66	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
67	Evaluation of anaerobic ethane oxidation capability of the denitrifying anaerobic methane oxidation culture. <i>Bioresource Technology Reports</i> , 2020, 10, 100418.	1.5	5
68	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
69	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
70	Waste C1 Gases as Alternatives to Pure CO ₂ Improved the Microbial Electrosynthesis of C4 and C6 Carboxylates. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8773-8782.	3.2	32
71	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
72	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

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73	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
74	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
75	Synergetic alginate conversion by a microbial consortium of hydrolytic bacteria and methanogens. <i>Water Research</i> , 2019, 163, 114892.	5.3	36
76	Humic substances as electron acceptors for anaerobic oxidation of methane driven by ANME-2d. <i>Water Research</i> , 2019, 164, 114935.	5.3	95
77	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
78	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
79	Decolorization of Acid Orange 7 by extreme-thermophilic mixed culture. <i>Bioresource Technology</i> , 2019, 291, 121875.	4.8	21
80	Nontemplating Porous Carbon Material from Polyphosphamide Resin for Supercapacitors. <i>IScience</i> , 2019, 12, 204-215.	1.9	9
81	Anaerobic reductive bio-dissolution of jarosites by <i>Acidithiobacillus ferrooxidans</i> using hydrogen as electron donor. <i>Science of the Total Environment</i> , 2019, 686, 869-877.	3.9	12
82	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
83	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
84	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
85	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
86	Effect of different phosphorus concentrations on biodiesel production from <i>Isochrysis zhangjiangensis</i> under nitrogen sufficiency or deprivation condition. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5051-5059.	1.7	10
87	Microbial selenite reduction coupled to anaerobic oxidation of methane. <i>Science of the Total Environment</i> , 2019, 669, 168-174.	3.9	22
88	Evaluation of the effect of agitation speed on the growth and high- ω -value LC-PUFA formation of <i>Porphyridium cruentum</i> based on basic rheological analysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2158-2166.	1.6	6
89	Application of iron-crosslinked sodium alginate for efficient sulfide control and reduction of oilfield produced water. <i>Water Research</i> , 2019, 154, 12-20.	5.3	13
90	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

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91	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
92	Inhibitory effects of free propionic and butyric acids on the activities of hydrogenotrophic methanogens in mesophilic mixed culture fermentation. <i>Bioresource Technology</i> , 2019, 272, 458-464.	4.8	14
93	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
94	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
95	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
96	Bidirectional extracellular electron transfers of electrode-biofilm: Mechanism and application. <i>Bioresource Technology</i> , 2019, 271, 439-448.	4.8	88
97	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
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	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
100	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
101	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
102	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
103	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
104	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
105	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
106	Low-level concentrations of aminoglycoside antibiotics induce the aggregation of cyanobacteria. <i>Environmental Science and Pollution Research</i> , 2018, 25, 17128-17136.	2.7	11
107	The chemostat metabolite spectra of alkaline mixed culture fermentation under mesophilic, thermophilic, and extreme-thermophilic conditions. <i>Bioresource Technology</i> , 2018, 249, 322-327.	4.8	8
108	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

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109	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
110	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
111	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
112	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
113	A modeling understanding on the phosphorous removal performances of A2O and reversed A2O processes in a full-scale wastewater treatment plant. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22810-22817.	2.7	7
114	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
115	Complete genome sequence of the dissimilatory azo reducing thermophilic bacterium <i>Novibacillus thermophiles</i> SG-1. <i>Journal of Biotechnology</i> , 2018, 284, 6-10.	1.9	13
116	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
117	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
118	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
119	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
120	Functional Annotation of <i>Caenorhabditis elegans</i> Genes by Analysis of Gene Co-Expression Networks. <i>Biomolecules</i> , 2018, 8, 70.	1.8	4
121	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
122	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
123	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
124	Removal of antibiotic resistance genes from wastewater treatment plant effluent by coagulation. <i>Water Research</i> , 2017, 111, 204-212.	5.3	219
125	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
126	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

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127	Enhancement of acetate productivity in a thermophilic (55°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
128	Design and characterization of a microbial self-healing gel for enhanced oil recovery. <i>RSC Advances</i> , 2017, 7, 2578-2586.	1.7	16
129	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
130	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
131	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
132	Ammonium level induces high purity propionate production in mixed culture glucose fermentation. <i>RSC Advances</i> , 2017, 7, 518-525.	1.7	11
133	In-situ sludge pretreatment in a single-stage anaerobic digester. <i>Bioresource Technology</i> , 2017, 238, 102-108.	4.8	20
134	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
135	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
136	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
137	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
138	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
139	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
140	Recent developments of post-modification of biochar for electrochemical energy storage. <i>Bioresource Technology</i> , 2017, 246, 224-233.	4.8	160
141	Microbially induced calcium carbonate precipitation driven by ureolysis to enhance oil recovery. <i>RSC Advances</i> , 2017, 7, 37382-37391.	1.7	35
142	Valuable biochemical production in mixed culture fermentation: fundamentals and process coupling. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6575-6586.	1.7	32
143	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
144	Electricity production and microbial characterization of thermophilic microbial fuel cells. <i>Bioresource Technology</i> , 2017, 243, 512-519.	4.8	27

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145	Chitin degradation and electricity generation by <i>Aeromonas hydrophila</i> in microbial fuel cells. <i>Chemosphere</i> , 2017, 168, 293-299.	4.2	43
146	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
147	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
148	Critical analysis of hydrogen production from mixed culture fermentation under thermophilic condition (60°C). <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5165-5176.	1.7	4
149	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
150	Characterization of anaerobic granular sludge using a rheological approach. <i>Water Research</i> , 2016, 106, 116-125.	5.3	43
151	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
152	Cr(VI) reduction coupled with anaerobic oxidation of methane in a laboratory reactor. <i>Water Research</i> , 2016, 102, 445-452.	5.3	80
153	High-purity propionate production from glycerol in mixed culture fermentation. <i>Bioresource Technology</i> , 2016, 219, 659-667.	4.8	49
154	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
155	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
156	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
157	Role of sufficient phosphorus in biodiesel production from diatom <i>Phaeodactylum tricorutum</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6927-6934.	1.7	15
158	Microbial dynamics of the extreme-thermophilic (70°C) mixed culture for hydrogen production in a chemostat. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11072-11080.	3.8	11
159	Experimental evaluation of the metabolic reversibility of ANME-2d between anaerobic methane oxidation and methanogenesis. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6481-6490.	1.7	12
160	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
161	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
162	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

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163	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
164	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
165	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
166	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
167	Palladium nanoparticles produced and dispersed by <i>Caldicellulosiruptor saccharolyticus</i> enhance the degradation of contaminants in water. <i>RSC Advances</i> , 2015, 5, 15559-15565.	1.7	9
168	Understanding the Microbial Internal Storage Turnover in Wastewater Treatment: Retrospect, Prospect, and Challenge. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 591-612.	6.6	11
169	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
170	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
171	Simultaneous production of acetate and methane from glycerol by selective enrichment of hydrogenotrophic methanogens in extreme-thermophilic (70 °C) mixed culture fermentation. <i>Applied Energy</i> , 2015, 148, 326-333.	5.1	38
172	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
173	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
174	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
175	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
176	<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
177	Evaluation of the after-effects of cyanobacterial cell removal and lysis by photocatalysis using Ag/AgBr/TiO ₂ . <i>Water Science and Technology</i> , 2014, 70, 828-834.	1.2	5
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179	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
180	Simultaneous enrichment of denitrifying methanotrophs and anammox bacteria. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10211-10221.	1.7	83

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181	The chemostat study of metabolic distribution in extreme-thermophilic (70°C) mixed culture fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10267-10273.	1.7	16
182	Photoinduced water oxidation catalyzed by a double-helical dicobalt(II) sexipyridine complex. <i>Chemical Communications</i> , 2014, 50, 14956-14959.	2.2	21
183	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
184	A rheological approach to analyze aerobic granular sludge. <i>Water Research</i> , 2014, 50, 171-178.	5.3	37
185	Stable acetate production in extreme-thermophilic (70°C) mixed culture fermentation by selective enrichment of hydrogenotrophic methanogens. <i>Scientific Reports</i> , 2014, 4, 5268.	1.6	38
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187	Hydrogen supersaturation in extreme-thermophilic (70°C) mixed culture fermentation. <i>Applied Energy</i> , 2013, 109, 213-219.	5.1	26
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191	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
192	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
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