

Fang Zhang

List of Publications by Year in descending order

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67
papers

1,982
citations

218677

26
h-index

276875

41
g-index

67
all docs

67
docs citations

67
times ranked

2008
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatty acids production from hydrogen and carbon dioxide by mixed culture in the membrane biofilm reactor. <i>Water Research</i> , 2013, 47, 6122-6129.	11.3	164
2	Humic substances as electron acceptors for anaerobic oxidation of methane driven by ANME-2d. <i>Water Research</i> , 2019, 164, 114935.	11.3	95
3	Simultaneous enrichment of denitrifying methanotrophs and anammox bacteria. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10211-10221.	3.6	83
4	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.	10.1	80
5	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.	8.2	74
6	Iron-carbon composite from carbonization of iron-crosslinked sodium alginate for Cr(VI) removal. <i>Chemical Engineering Journal</i> , 2019, 362, 21-29.	12.7	66
7	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.	9.6	55
8	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.	9.3	54
9	Hydrogen supersaturation in thermophilic mixed culture fermentation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17809-17816.	7.1	51
10	High-purity propionate production from glycerol in mixed culture fermentation. <i>Bioresource Technology</i> , 2016, 219, 659-667.	9.6	49
11	Alkali production from bipolar membrane electrodialysis powered by microbial fuel cell and application for biogas upgrading. <i>Applied Energy</i> , 2013, 103, 428-434.	10.1	47
12	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.	12.4	44
13	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.	3.6	43
14	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.	3.3	43
15	Zinc: A promising material for electrocatalyst-assisted microbial electrosynthesis of carboxylic acids from carbon dioxide. <i>Water Research</i> , 2019, 159, 87-94.	11.3	43
16	Caproate production from xylose by mesophilic mixed culture fermentation. <i>Bioresource Technology</i> , 2020, 308, 123318.	9.6	43
17	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.	3.6	39
18	Simultaneous production of acetate and methane from glycerol by selective enrichment of hydrogenotrophic methanogens in extreme-thermophilic (70 Å°C) mixed culture fermentation. <i>Applied Energy</i> , 2015, 148, 326-333.	10.1	38

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19	Stable acetate production in extreme-thermophilic (70Å°C) mixed culture fermentation by selective enrichment of hydrogenotrophic methanogens. <i>Scientific Reports</i> , 2014, 4, 5268.	3.3	38
20	Characterization of microbial compositions in a thermophilic chemostat of mixed culture fermentation. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1511-1521.	3.6	38
21	Synergetic alginate conversion by a microbial consortium of hydrolytic bacteria and methanogens. <i>Water Research</i> , 2019, 163, 114892.	11.3	36
22	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.	8.0	36
23	Impacts of medium composition and applied current on recovery of volatile fatty acids during coupling of electro dialysis with an anaerobic digester. <i>Journal of Cleaner Production</i> , 2019, 207, 483-489.	9.3	34
24	Production of chemicals in thermophilic mixed culture fermentation: mechanism and strategy. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1-30.	12.8	34
25	Hydraulic retention time affects stable acetate production from tofu processing wastewater in extreme-thermophilic (70 Å°C) mixed culture fermentation. <i>Bioresource Technology</i> , 2016, 216, 722-728.	9.6	32
26	Valuable biochemical production in mixed culture fermentation: fundamentals and process coupling. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6575-6586.	3.6	32
27	Electricity production and microbial characterization of thermophilic microbial fuel cells. <i>Bioresource Technology</i> , 2017, 243, 512-519.	9.6	27
28	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.	9.3	27
29	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.	8.0	27
30	Hydrogen supersaturation in extreme-thermophilic (70Å°C) mixed culture fermentation. <i>Applied Energy</i> , 2013, 109, 213-219.	10.1	26
31	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.	3.6	25
32	The glucose metabolic distribution in thermophilic (55Å°C) mixed culture fermentation: A chemostat study. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 919-926.	7.1	24
33	Hydrogen and carbon dioxide mixed culture fermentation in a hollow-fiber membrane biofilm reactor at 25Å°C. <i>Bioresource Technology</i> , 2018, 249, 659-665.	9.6	24
34	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.	9.6	24
35	Decolorization by <i>Caldicellulosiruptor saccharolyticus</i> with dissolved hydrogen under extreme thermophilic conditions. <i>Chemical Engineering Journal</i> , 2015, 262, 847-853.	12.7	22
36	Microbial selenite reduction coupled to anaerobic oxidation of methane. <i>Science of the Total Environment</i> , 2019, 669, 168-174.	8.0	22

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37	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.	2.9	21
38	Decolorization of Acid Orange 7 by extreme-thermophilic mixed culture. <i>Bioresource Technology</i> , 2019, 291, 121875.	9.6	21
39	Power to hydrogen-oxidizing bacteria: Effect of current density on bacterial activity and community spectra. <i>Journal of Cleaner Production</i> , 2020, 263, 121596.	9.3	20
40	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.	8.7	17
41	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.	9.6	17
42	The chemostat study of metabolic distribution in extreme-thermophilic (70°C) mixed culture fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10267-10273.	3.6	16
43	Mixed culture fermentation of synthesis gas in the microfiltration and ultrafiltration hollow-fiber membrane biofilm reactors. <i>Bioresource Technology</i> , 2018, 267, 650-656.	9.6	15
44	Stimulation of methane production from benzoate with addition of carbon materials. <i>Science of the Total Environment</i> , 2020, 723, 138080.	8.0	15
45	Electricity production and microbial community in psychrophilic microbial fuel cells at 10°C. <i>Bioresource Technology</i> , 2020, 313, 123680.	9.6	15
46	Enrichment of hydrogen-oxidizing bacteria with nitrate recovery as biofertilizers in the mixed culture. <i>Bioresource Technology</i> , 2020, 313, 123645.	9.6	15
47	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.	10.0	15
48	An internal-integrated RED/ED system for energy-saving seawater desalination: A model study. <i>Energy</i> , 2019, 170, 139-148.	8.8	14
49	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.	9.6	14
50	Application of iron-crosslinked sodium alginate for efficient sulfide control and reduction of oilfield produced water. <i>Water Research</i> , 2019, 154, 12-20.	11.3	13
51	Elucidating the production and inhibition of melanoidins products on anaerobic digestion after thermal-alkaline pretreatment. <i>Journal of Hazardous Materials</i> , 2022, 424, 127377.	12.4	12
52	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.	7.1	11
53	Ammonium level induces high purity propionate production in mixed culture glucose fermentation. <i>RSC Advances</i> , 2017, 7, 518-525.	3.6	11
54	Highly Selective Fermentation of Waste-Activated Sludge by Alginate-Degrading Consortia. <i>ACS ES&T Engineering</i> , 2021, 1, 1606-1617.	7.6	10

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55	Controlling volatile fatty acids production from waste activated sludge by an alginate-degrading consortium. <i>Science of the Total Environment</i> , 2022, 806, 150730.	8.0	10
56	The chemostat metabolite spectra of alkaline mixed culture fermentation under mesophilic, thermophilic, and extreme-thermophilic conditions. <i>Bioresource Technology</i> , 2018, 249, 322-327.	9.6	8
57	Two-stage enrichment of hydrogen-oxidizing bacteria as biofertilizers. <i>Chemosphere</i> , 2021, 266, 128932.	8.2	8
58	Acetate and electricity generation from methane in conductive fiber membrane- microbial fuel cells. <i>Science of the Total Environment</i> , 2022, 804, 150147.	8.0	8
59	Why is the ratio of H ₂ /acetate over 2 in glucose fermentation by <i>Caldicellulosiruptor saccharolyticus</i> ?. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11241-11247.	7.1	7
60	In situ prepared algae-supported iron sulfide to remove hexavalent chromium. <i>Environmental Pollution</i> , 2021, 274, 115831.	7.5	6
61	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.	12.4	6
62	Electricity production and key exoelectrogens in a mixed-culture psychrophilic microbial fuel cell at 4°C. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4801-4811.	3.6	6
63	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.	2.5	5
64	Impact of fat and muscle in energy dispersive X-ray diffraction-based identification of heroin using multivariate data analysis. <i>Journal of Chemometrics</i> , 2011, 25, 631-635.	1.3	4
65	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.	6.0	3
66	Anaerobic Thermophilic Mixed Culture Fermentation Processes. , 2019, , 437-460.		0
67	Use of Syngas for the Production of Organic Molecules by Fermentation. , 2019, , 491-509.		0