Tian Zhang

List of Publications by Citations

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2,963 26 54 g-index

70 3,559 ext. papers ext. citations 7.8 avg, IF 5.59 L-index

#	Paper	IF	Citations
66	Geobacter: the microbe electric physiology, ecology, and practical applications. <i>Advances in Microbial Physiology</i> , 2011 , 59, 1-100	4.4	399
65	Improved cathode materials for microbial electrosynthesis. <i>Energy and Environmental Science</i> , 2013 , 6, 217-224	35.4	260
64	Stimulating the anaerobic degradation of aromatic hydrocarbons in contaminated sediments by providing an electrode as the electron acceptor. <i>Environmental Microbiology</i> , 2010 , 12, 1011-20	5.2	239
63	The Rnf complex of Clostridium ljungdahlii is a proton-translocating ferredoxin:NAD+ oxidoreductase essential for autotrophic growth. <i>MBio</i> , 2012 , 4, e00406-12	7.8	147
62	Electrifying microbes for the production of chemicals. Frontiers in Microbiology, 2015, 6, 201	5.7	133
61	A novel mediatorless microbial fuel cell based on direct biocatalysis of Escherichia coli. <i>Chemical Communications</i> , 2006 , 2257-9	5.8	121
60	Improved cathode for high efficient microbial-catalyzed reduction in microbial electrosynthesis cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14290-4	3.6	120
59	Extracellular Electron Uptake: Among Autotrophs and Mediated by Surfaces. <i>Trends in Biotechnology</i> , 2017 , 35, 360-371	15.1	112
58	The direct electrocatalysis of Escherichia coli through electroactivated excretion in microbial fuel cell. <i>Electrochemistry Communications</i> , 2008 , 10, 293-297	5.1	112
57	Improved performances of E. coli-catalyzed microbial fuel cells with composite graphite/PTFE anodes. <i>Electrochemistry Communications</i> , 2007 , 9, 349-353	5.1	106
56	Performance of different Sporomusa species for the microbial electrosynthesis of acetate from carbon dioxide. <i>Bioresource Technology</i> , 2017 , 233, 184-190	11	86
55	Electrosynthesis of acetate from CO2 by a highly structured biofilm assembled with reduced graphene oxideEetraethylene pentamine. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8395-8401	13	85
54	Sulfide-driven microbial electrosynthesis. <i>Environmental Science & Environmental Science & Environmen</i>	10.3	83
53	Anaerobic benzene oxidation via phenol in Geobacter metallireducens. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 7800-6	4.8	79
52	Enhanced microbial electrosynthesis with three-dimensional graphene functionalized cathodes fabricated via solvothermal synthesis. <i>Electrochimica Acta</i> , 2016 , 217, 117-122	6.7	77
51	Anaerobic benzene oxidation by Geobacter species. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 8304-10	4.8	76
50	Adaptation of the autotrophic acetogen Sporomusa ovata to methanol accelerates the conversion of CO2 to organic products. <i>Scientific Reports</i> , 2015 , 5, 16168	4.9	56

(2012-2016)

49	Effect of tungstate on acetate and ethanol production by the electrosynthetic bacterium Sporomusa ovata. <i>Biotechnology for Biofuels</i> , 2016 , 9, 163	7.8	52
48	Freestanding and flexible graphene papers as bioelectrochemical cathode for selective and efficient CO conversion. <i>Scientific Reports</i> , 2017 , 7, 9107	4.9	44
47	ARTIFICIAL PHOTOSYNTHESIS. More efficient together. <i>Science</i> , 2015 , 350, 738-9	33.3	44
46	Increased carbon dioxide reduction to acetate in a microbial electrosynthesis reactor with a reduced graphene oxide-coated copper foam composite cathode. <i>Bioelectrochemistry</i> , 2019 , 128, 83-93	5.6	43
45	Sulfur oxidation to sulfate coupled with electron transfer to electrodes by Desulfuromonas strain TZ1. <i>Microbiology (United Kingdom)</i> , 2014 , 160, 123-129	2.9	35
44	Stimulating bioplastic production with light energy by coupling Ralstonia eutropha with the photocatalyst graphitic carbon nitride. <i>Green Chemistry</i> , 2019 , 21, 2392-2400	10	29
43	Production of long chain alkyl esters from carbon dioxide and electricity by a two-stage bacterial process. <i>Bioresource Technology</i> , 2017 , 243, 30-36	11	28
42	Nonmetallic Abiotic-Biological Hybrid Photocatalyst for Visible Water Splitting and Carbon Dioxide Reduction. <i>IScience</i> , 2020 , 23, 100784	6.1	28
41	Constraint-based modeling of carbon fixation and the energetics of electron transfer in Geobacter metallireducens. <i>PLoS Computational Biology</i> , 2014 , 10, e1003575	5	27
40	3D Printing and Bioprinting Nerve Conduits for Neural Tissue Engineering. <i>Polymers</i> , 2020 , 12,	4.5	26
39	Highly Conductive Poly(3,4-ethylenedioxythiophene) Polystyrene Sulfonate Polymer Coated Cathode for the Microbial Electrosynthesis of Acetate From Carbon Dioxide. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	24
38	Identification of genes specifically required for the anaerobic metabolism of benzene in Geobacter metallireducens. <i>Frontiers in Microbiology</i> , 2014 , 5, 245	5.7	23
37	Hybrid photosynthesis-powering biocatalysts with solar energy captured by inorganic devices. <i>Biotechnology for Biofuels</i> , 2017 , 10, 249	7.8	22
36	Photo-augmented PHB production from CO or fructose by Cupriavidus necator and shape-optimized CdS nanorods. <i>Science of the Total Environment</i> , 2021 , 753, 142050	10.2	19
35	Harnessing light energy with a planar transparent hybrid of graphene/single wall carbon nanotube/n-type silicon heterojunction solar cell. <i>Electrochimica Acta</i> , 2015 , 178, 732-738	6.7	18
34	Graphene: An Antibacterial Agent or a Promoter of Bacterial Proliferation?. <i>IScience</i> , 2020 , 23, 101787	6.1	18
33	Efficient photocatalytic hydrogen evolution with high-crystallinity and noble metal-free red phosphorus-CdS nanorods. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 17354-17366	6.7	16
32	Acute toxicity of chlorobenzenes in tetrahymena: estimated by microcalorimetry and mechanism. <i>Environmental Toxicology and Pharmacology</i> , 2012 , 33, 377-85	5.8	15

31	Preparation and properties of carboxymethyl chitosan/oxidized hydroxyethyl cellulose hydrogel. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1692-1698	7.9	14
30	The hidden chemolithoautotrophic metabolism of Geobacter sulfurreducens uncovered by adaptation to formate. <i>ISME Journal</i> , 2020 , 14, 2078-2089	11.9	13
29	Accelerated H2 Evolution during Microbial Electrosynthesis with Sporomusa ovata. <i>Catalysts</i> , 2019 , 9, 166	4	11
28	Joint toxicity of heavy metals and chlorobenzenes to pyriformis Tetrahymena. <i>Chemosphere</i> , 2014 , 104, 177-83	8.4	11
27	Synthesis of a photocurable acrylated poly(ethylene glycol)poly(xylitol sebacate) copolymers hydrogel 3D printing ink for tissue engineering <i>RSC Advances</i> , 2019 , 9, 18394-18405	3.7	9
26	Effectively Improved Field Emission Properties of Multiwalled Carbon Nanotubes/Graphenes Composite Field Emitter by Covering on the Si Pyramidal Structure. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 4305-4312	2.9	9
25	The action of norfloxacin complexes on Tetrahymena investigated by microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 109, 433-439	4.1	8
24	Improved robustness of microbial electrosynthesis by adaptation of a strict anaerobic microbial catalyst to molecular oxygen. <i>Science of the Total Environment</i> , 2021 , 754, 142440	10.2	8
23	Escherichia coli adaptation and response to exposure to heavy atmospheric pollution. <i>Scientific Reports</i> , 2019 , 9, 10879	4.9	7
22	Crystalline CdS/MoS shape-controlled by a bacterial cellulose scaffold for enhanced photocatalytic hydrogen evolution. <i>Carbohydrate Polymers</i> , 2020 , 250, 116909	10.3	7
21	The one-pot synthesis of a ZnSe/ZnS photocatalyst for H2 evolution and microbial bioproduction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21901-21911	6.7	7
20	Fast removal of toxic hexavalent chromium from an aqueous solution by high-density Geobacter sulfurreducens. <i>Chemosphere</i> , 2021 , 263, 128281	8.4	7
19	Genetic evidence that the degradation of para-cresol by Geobacter metallireducens is catalyzed by the periplasmic para-cresol methylhydroxylase. <i>FEMS Microbiology Letters</i> , 2015 , 362,	2.9	6
18	The facile and controllable synthesis of a bacterial cellulose/polyhydroxybutyrate composite by co-culturing Gluconacetobacter xylinus and Ralstonia eutropha. <i>Carbohydrate Polymers</i> , 2021 , 252, 117	1 3 9·3	6
17	Acute toxicity of heavy metals to Tetrahymena in an in vitro experiment and envelope damage study. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2013 , 91, 62-8	2.7	4
16	Possible Industrial Applications for Microbial Electrosynthesis From Carbon Dioxide 2019 , 825-842		4
15	Impact of electron scavenging during electric current generation from propionate by a Geobacter co-culture. <i>Chemical Engineering Journal</i> , 2021 , 418, 129357	14.7	4
14	Voices of biotech. <i>Nature Biotechnology</i> , 2016 , 34, 270-5	44.5	3

LIST OF PUBLICATIONS

13	Synthetic Biology Strategies to Improve Electron Transfer Rate at the MicrobeAnode Interface in Microbial Fuel Cells 2019 , 187-208		3
12	An electrochemiluminescence resonance energy transfer biosensor for the detection of circulating tumor DNA from blood plasma. <i>IScience</i> , 2021 , 24, 103019	6.1	3
11	The one-step hydrothermal synthesis of CdS nanorods modified with carbonized leaves from Japanese raisin trees for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
10	Anode Catalysts and Biocatalysts for Microbial Fuel Cells 2018 , 143-165		2
9	An Adaptive Laboratory Evolution Method to Accelerate Autotrophic Metabolism. <i>Methods in Molecular Biology</i> , 2018 , 1671, 149-161	1.4	2
8	Functional Genomics of Metal-Reducing Microbes Degrading Hydrocarbons 2017 , 1-21		2
7	Selective electrocatalytic reduction of carbon dioxide to formate by a trimetallic Sn-Co/Cu foam electrode. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 877, 114623	4.1	2
6	Improved polyhydroxybutyrate production by Cupriavidus necator and the photocatalyst graphitic carbon nitride from fructose under low light intensity <i>International Journal of Biological Macromolecules</i> , 2022 , 203, 526-534	7.9	1
5	Optimizing the electrical conductivity of polyacrylonitrile/polyaniline with nickel nanoparticles for the enhanced electrostimulation of Schwann cells proliferation. <i>Bioelectrochemistry</i> , 2021 , 140, 107750	5.6	1
4	Fumarate disproportionation by Geobacter sulfurreducens and its involvement in biocorrosion and interspecies electron transfer <i>Science of the Total Environment</i> , 2022 , 827, 154251	10.2	1
3	Enhanced hydrogen evolution under visible light by a ternary composite photocatalyst made of CdS and MoS2 modified with bacterial cellulose aerogel. <i>Cellulose</i> , 2022 , 29, 175	5.5	О
2	Graphene Electrodes in Bioelectrochemical Systems 2020 , 422-443		

Functional Genomics of Metal-Reducing Microbes Degrading Hydrocarbons **2020**, 233-253