

Xiang Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,824
citations

218381

26
h-index

264894

42
g-index

52
all docs

52
docs citations

52
times ranked

2203
citing authors

#	ARTICLE	IF	CITATIONS
1	Re-evaluation of the environmental hazards of nZnO to denitrification: Performance and mechanism. <i>Chemosphere</i> , 2022, 291, 132824.	4.2	4
2	Electrochemistry of newly isolated Gram-positive bacteria <i>Paenibacillus lautus</i> with starch as sole carbon source. <i>Electrochimica Acta</i> , 2022, 411, 140068.	2.6	5
3	Boosting the singlet oxygen production from H ₂ O ₂ activation with highly dispersed Co ^{II} -N-graphene for pollutant removal. <i>RSC Advances</i> , 2022, 12, 17864-17872.	1.7	8
4	Performance and mechanisms exploration of nano zinc oxide (nZnO) on anaerobic decolorization by <i>Shewanella oneidensis</i> MR-1. <i>Chemosphere</i> , 2022, 305, 135510.	4.2	1
5	Hydrogen production from lignocellulosic hydrolysate in an up-scaled microbial electrolysis cell with stacked bio-electrodes. <i>Bioresource Technology</i> , 2021, 320, 124314.	4.8	28
6	TiO ₂ photoexcitation promoted horizontal transfer of resistance genes mediated by phage transduction. <i>Science of the Total Environment</i> , 2021, 760, 144040.	3.9	21
7	Anaerobic reduction of high-polarity nitroaromatic compounds by electrochemically active bacteria: Roles of Mtr respiratory pathway, molecular polarity, mediator and membrane permeability. <i>Environmental Pollution</i> , 2021, 268, 115943.	3.7	10
8	Enhancement of nitrogen removal in hybrid wastewater treatment system using ferric citrate modified basalt fiber biocarrier. <i>Environmental Science and Pollution Research</i> , 2021, 28, 33480-33490.	2.7	4
9	Dynamically controlling the electrode potential of a microbial fuel cell-powered biocathode for sensitive quantification of nitrate. <i>Electrochimica Acta</i> , 2021, 369, 137661.	2.6	12
10	Calcium modified basalt fiber bio-carrier for wastewater treatment: Investigation on bacterial community and nitrogen removal enhancement of bio-nest. <i>Bioresource Technology</i> , 2021, 335, 125259.	4.8	9
11	Evaluation of antibacterial activities of silver nanoparticles on culturability and cell viability of <i>Escherichia coli</i> . <i>Science of the Total Environment</i> , 2021, 794, 148765.	3.9	22
12	Anaerobically photoreductive degradation by CdS nanocrystal: Biofabrication process and bioelectron-driven reaction coupled with <i>Shewanella oneidensis</i> MR-1. <i>Biochemical Engineering Journal</i> , 2020, 154, 107466.	1.8	20
13	Molecular mechanisms of microbial transmembrane electron transfer of electrochemically active bacteria. <i>Current Opinion in Chemical Biology</i> , 2020, 59, 104-110.	2.8	32
14	Elucidation of photodegradation of p-chlorophenol in a biophotoelectric reductive degradation system by density functional theory calculations. <i>International Biodeterioration and Biodegradation</i> , 2020, 151, 104969.	1.9	10
15	Impact of nano-TiO ₂ on horizontal transfer of resistance genes mediated by filamentous phage transduction. <i>Environmental Science: Nano</i> , 2020, 7, 1214-1224.	2.2	26
16	Breaking the loop: Tackling homoacetogenesis by chloroform to halt hydrogen production-consumption loop in single chamber microbial electrolysis cells. <i>Chemical Engineering Journal</i> , 2020, 389, 124436.	6.6	30
17	Effects of size and spacing of basalt fiber carrier media on performance, extracellular polymeric substances and microbial community of hybrid biological reactors. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1253-1261.	1.2	8
18	Degradation of rhodamine B in a novel bio-photoelectric reductive system composed of <i>Shewanella oneidensis</i> MR-1 and Ag ₃ PO ₄ . <i>Environment International</i> , 2019, 126, 560-567.	4.8	51

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19	A sustainable bio-carrier medium for wastewater treatment: Modified basalt fiber. <i>Journal of Cleaner Production</i> , 2019, 225, 472-480.	4.6	37
20	Interpretation of adhesion behaviors between bacteria and modified basalt fiber by surface thermodynamics and extended DLVO theory. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 454-461.	2.5	55
21	A simple method for assaying anaerobic biodegradation of dyes. <i>Bioresource Technology</i> , 2018, 251, 204-209.	4.8	41
22	Surface Modification of Basalt Fiber with Organic/Inorganic Composites for Biofilm Carrier Used in Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2596-2602.	3.2	58
23	Anaerobic decolorization and detoxification of cationic red X-GRL by <i>Shewanella oneidensis</i> MR-1. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2382-2389.	1.2	14
24	Feasibility of using basalt fiber as biofilm Carrier to construct bio-nest for wastewater treatment. <i>Chemosphere</i> , 2018, 212, 768-776.	4.2	27
25	Combined intra- and extracellular reduction involved in the anaerobic biodecolorization of cationic azo dye by <i>Shewanella oneidensis</i> MR-1. <i>Chemosphere</i> , 2018, 211, 701-708.	4.2	16
26	A high-throughput dye-reducing photometric assay for evaluating microbial exoelectrogenic ability. <i>Bioresource Technology</i> , 2017, 241, 743-749.	4.8	23
27	Anaerobic reduction of 2,6-dinitrotoluene by <i>Shewanella oneidensis</i> MR-1: Roles of Mtr respiratory pathway and NfnB. <i>Biotechnology and Bioengineering</i> , 2017, 114, 761-768.	1.7	35
28	Self-assembly of complex hollow CuS nano/micro shell by an electrochemically active bacterium <i>Shewanella oneidensis</i> MR-1. <i>International Biodeterioration and Biodegradation</i> , 2017, 116, 10-16.	1.9	35
29	Zwitterionic buffer-induced visible light excitation of TiO ₂ for efficient pollutant photodegradation. <i>RSC Advances</i> , 2016, 6, 35449-35454.	1.7	4
30	Impairment of Biofilm Formation by TiO ₂ Photocatalysis through Quorum Quenching. <i>Environmental Science & Technology</i> , 2016, 50, 11895-11902.	4.6	53
31	Biosynthesis of FeS nanoparticles from contaminant degradation in one single system. <i>Biochemical Engineering Journal</i> , 2016, 105, 214-219.	1.8	38
32	Photocatalytic properties of zinc sulfide nanocrystals biofabricated by metal-reducing bacterium <i>Shewanella oneidensis</i> MR-1. <i>Journal of Hazardous Materials</i> , 2015, 288, 134-139.	6.5	70
33	Determination of autoinducer-2 in biological samples by high-performance liquid chromatography with fluorescence detection using pre-column derivatization. <i>Journal of Chromatography A</i> , 2014, 1361, 162-168.	1.8	30
34	Decolorization and detoxification of a sulfonated triphenylmethane dye aniline blue by <i>Shewanella oneidensis</i> MR-1 under anaerobic conditions. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7439-7446.	1.7	34
35	Disintegration of aerobic granules induced by trans-2-decenoic acid. <i>Bioresource Technology</i> , 2013, 128, 823-826.	4.8	10
36	Electricity generation from dissolved organic matter in polluted lake water using a microbial fuel cell (MFC). <i>Biochemical Engineering Journal</i> , 2013, 71, 57-61.	1.8	23

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37	Reactive oxygen species (ROS) generated by cyanobacteria act as an electron acceptor in the biocathode of a bio-electrochemical system. <i>Biosensors and Bioelectronics</i> , 2013, 39, 306-310.	5.3	58
38	Role of electricity production in the anaerobic decolorization of dye mixture by exoelectrogenic bacterium <i>Shewanella oneidensis</i> MR-1. <i>Bioresource Technology</i> , 2013, 136, 176-181.	4.8	42
39	Influence of biosurfactant-producing strain <i>Bacillus subtilis</i> BS1 on the mycoremediation of soils contaminated with phenanthrene. <i>International Biodeterioration and Biodegradation</i> , 2012, 75, 36-42.	1.9	27
40	Enhanced electricity production from microbial fuel cells with plasma-modified carbon paper anode. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9966.	1.3	73
41	Involvement of c-type cytochrome CymA in the electron transfer of anaerobic nitrobenzene reduction by <i>Shewanella oneidensis</i> MR-1. <i>Biochemical Engineering Journal</i> , 2012, 68, 227-230.	1.8	26
42	Biodecolorization of Naphthol Green B dye by <i>Shewanella oneidensis</i> MR-1 under anaerobic conditions. <i>Bioresource Technology</i> , 2012, 110, 86-90.	4.8	70
43	Anaerobic biodecolorization mechanism of methyl orange by <i>Shewanella oneidensis</i> MR-1. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1769-1776.	1.7	107
44	Isolation, identification and characterization of phytoplankton-lytic bacterium CH-22 against <i>Microcystis aeruginosa</i> . <i>Limnologia</i> , 2011, 41, 70-77.	0.7	55
45	Impact of a static magnetic field on the electricity production of <i>Shewanella</i> -inoculated microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3987-3992.	5.3	69
46	Abscopal Signals Mediated Bio-Effects in Low-Energy Ion Irradiated <i>Medicago truncatula</i> Seeds. <i>Journal of Radiation Research</i> , 2010, 51, 651-656.	0.8	13
47	Role and Regulation of Fatty Acid Biosynthesis in the Response of <i>Shewanella piezotolerans</i> WP3 to Different Temperatures and Pressures. <i>Journal of Bacteriology</i> , 2009, 191, 2574-2584.	1.0	112
48	Impact of <i>Bacillus subtilis</i> JA, a biocontrol strain of fungal plant pathogens, on arbuscular mycorrhiza formation in <i>Zea mays</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1133-1137.	1.7	12
49	Antagonistic effects of volatiles generated by <i>Bacillus subtilis</i> on spore germination and hyphal growth of the plant pathogen, <i>Botrytis cinerea</i> . <i>Biotechnology Letters</i> , 2008, 30, 919-923.	1.1	124
50	Cadmium-Induced Germline Apoptosis in <i>Caenorhabditis elegans</i> : The Roles of HUS1, p53, and MAPK Signaling Pathways. <i>Toxicological Sciences</i> , 2008, 102, 345-351.	1.4	59
51	Effects of arbuscular mycorrhizal fungi on the growth, nutrient uptake and glycyrrhizin production of licorice (<i>Glycyrrhiza uralensis</i> Fisch). <i>Plant Growth Regulation</i> , 2007, 52, 29-39.	1.8	73