

Xin Wang

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,998
citations

186265

28
h-index

197818

49
g-index

61
all docs

61
docs citations

61
times ranked

3604
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastics as contaminants in the soil environment: A mini-review. <i>Science of the Total Environment</i> , 2019, 691, 848-857.	8.0	413
2	A novel structure of scalable air-cathode without Nafion and Pt by rolling activated carbon and PTFE as catalyst layer in microbial fuel cells. <i>Water Research</i> , 2012, 46, 5777-5787.	11.3	383
3	Enhanced limonene production in cyanobacteria reveals photosynthesis limitations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14225-14230.	7.1	152
4	Cr(VI) reduction at rutile-catalyzed cathode in microbial fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1496-1499.	4.7	151
5	Recent advances on ecological effects of microplastics on soil environment. <i>Science of the Total Environment</i> , 2021, 798, 149338.	8.0	141
6	Two-stage Hydrolysis of Invasive Algal Feedstock for Ethanol Fermentation. <i>Journal of Integrative Plant Biology</i> , 2011, 53, 246-252.	8.5	136
7	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. <i>Green Chemistry</i> , 2017, 19, 4939-4955.	9.0	116
8	Directed bioconversion of Kraft lignin to polyhydroxyalkanoate by <i>Cupriavidus basilensis</i> B-8 without any pretreatment. <i>Process Biochemistry</i> , 2017, 52, 238-242.	3.7	116
9	Use of bacterial co-cultures for the efficient production of chemicals. <i>Current Opinion in Biotechnology</i> , 2018, 53, 33-38.	6.6	107
10	Photocatalytically improved azo dye reduction in a microbial fuel cell with rutile-cathode. <i>Bioresource Technology</i> , 2010, 101, 3500-3505.	9.6	95
11	Advanced Chemical Design for Efficient Lignin Bioconversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2215-2223.	6.7	75
12	Simultaneous wastewater treatment and energy harvesting in microbial fuel cells: an update on the biocatalysts. <i>RSC Advances</i> , 2020, 10, 25874-25887.	3.6	75
13	Nickle-cobalt composite catalyst-modified activated carbon anode for direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1805-1815.	7.1	68
14	Effects of co-loading of polyethylene microplastics and ciprofloxacin on the antibiotic degradation efficiency and microbial community structure in soil. <i>Science of the Total Environment</i> , 2020, 741, 140463.	8.0	68
15	Glycogen Metabolism Supports Photosynthesis Start through the Oxidative Pentose Phosphate Pathway in Cyanobacteria. <i>Plant Physiology</i> , 2020, 182, 507-517.	4.8	68
16	A Versatile Approach for Site-specific Lysine Acylation in Proteins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1643-1647.	13.8	61
17	Simultaneous conversion of all cell wall components by an oleaginous fungus without chemi-physical pretreatment. <i>Green Chemistry</i> , 2015, 17, 1657-1667.	9.0	53
18	Synergistic reaction of silver nitrate, silver nanoparticles, and methylene blue against bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13612-13617.	7.1	48

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19	Repeated transfer enriches highly active electrotrophic microbial consortia on biocathodes in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2018, 121, 118-124.	10.1	48
20	Distribution and Diversity of Planktonic Fungi in the West Pacific Warm Pool. <i>PLoS ONE</i> , 2014, 9, e101523.	2.5	46
21	Photosynthetic terpene hydrocarbon production for fuels and chemicals. <i>Plant Biotechnology Journal</i> , 2015, 13, 137-146.	8.3	45
22	High-performance glucose fuel cell with bimetallic Ni-Co composite anchored on reduced graphene oxide as anode catalyst. <i>Renewable Energy</i> , 2020, 155, 1118-1126.	8.9	39
23	Low-defect multi-walled carbon nanotubes supported PtCo alloy nanoparticles with remarkable performance for electrooxidation of methanol. <i>Electrochimica Acta</i> , 2012, 80, 118-125.	5.2	38
24	A Genetically Encoded Allysine for the Synthesis of Proteins with Site-Specific Lysine Dimethylation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 212-216.	13.8	38
25	Diversity and Biogeochemical Function of Planktonic Fungi in the Ocean. <i>Progress in Molecular and Subcellular Biology</i> , 2012, 53, 71-88.	1.6	36
26	Abundance and Novel Lineages of Thraustochytrids in Hawaiian Waters. <i>Microbial Ecology</i> , 2013, 66, 823-830.	2.8	33
27	Peony petal-like 3D graphene-nickel oxide nanocomposite decorated nickel foam as high-performance electrocatalyst for direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29863-29873.	7.1	33
28	Co-Compartmentation of Terpene Biosynthesis and Storage <i>via</i> Synthetic Droplet. <i>ACS Synthetic Biology</i> , 2018, 7, 774-781.	3.8	33
29	<i>Chlamydomonas</i> sp. UWO 241 Exhibits High Cyclic Electron Flow and Rewired Metabolism under High Salinity. <i>Plant Physiology</i> , 2020, 183, 588-601.	4.8	28
30	A generalized computational framework to streamline thermodynamics and kinetics analysis of metabolic pathways. <i>Metabolic Engineering</i> , 2020, 57, 140-150.	7.0	27
31	The Antarctic psychrophiles <i>Chlamydomonas</i> spp. UWO241 and ICE-MDV exhibit differential restructuring of photosystem I in response to iron. <i>Photosynthesis Research</i> , 2019, 141, 209-228.	2.9	26
32	Cloning and characterization of a thermostable superoxide dismutase from the thermophilic bacterium <i>Rhodothermus</i> sp. XMH10. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 133-139.	3.0	25
33	Exogenous electricity flowing through cyanobacterial photosystem I drives CO ₂ valorization with high energy efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 5480-5490.	30.8	19
34	A guanidine-degrading enzyme controls genomic stability of ethylene-producing cyanobacteria. <i>Nature Communications</i> , 2021, 12, 5150.	12.8	18
35	Acetyl-CoA synthesis through a bicyclic carbon-fixing pathway in gas-fermenting bacteria. , 2022, 1, 615-625.		16
36	Stictamides A-C, MMP12 Inhibitors Containing 4-Amino-3-hydroxy-5-phenylpentanoic Acid Subunits. <i>Journal of Organic Chemistry</i> , 2011, 76, 3635-3643.	3.2	15

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37	Examination of the Glycine Betaine-Dependent Methylophilic Methanogenesis Pathway: Insights Into Anaerobic Quaternary Amine Methylophilicity. <i>Frontiers in Microbiology</i> , 2019, 10, 2572.	3.5	14
38	ATP Drives Efficient Terpene Biosynthesis in Marine Thraustochytrids. <i>MBio</i> , 2021, 12, e0088121.	4.1	11
39	A Genetically Encoded Allysine for the Synthesis of Proteins with Site-Specific Lysine Dimethylation. <i>Angewandte Chemie</i> , 2017, 129, 218-222.	2.0	10
40	Thermodynamics contributes to high limonene productivity in cyanobacteria. <i>Metabolic Engineering Communications</i> , 2022, 14, e00193.	3.6	10
41	Enhanced tetracycline degradation and power generation in a solar-illuminated bio-photoelectrochemical system. <i>Journal of Power Sources</i> , 2021, 497, 229876.	7.8	9
42	Molecular characteristics of the tubeworm, <i>Ridgeia piscesae</i> , from the deep-sea hydrothermal vent. <i>Extremophiles</i> , 2008, 12, 735-739.	2.3	8
43	Impact of redox-stratification on the diversity and distribution of bacterial communities in sandy reef sediments in a microcosm. <i>Chinese Journal of Oceanology and Limnology</i> , 2011, 29, 1209-1223.	0.7	7
44	Diversity of parasitic fungi associated with phytoplankton in Hawaiian waters. <i>Marine Biology Research</i> , 2016, 12, 294-303.	0.7	7
45	Optimal NaCl Medium Enhances Squalene Accumulation in <i>Thraustochytrium</i> sp. ATCC 26185 and Influences the Expression Levels of Key Metabolic Genes. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	7
46	19 Diversity and ecology of marine-derived fungi. , 0, , .		5
47	Marine Algae-Derived Porous Carbons as Robust Electrocatalysts for ORR. <i>Catalysts</i> , 2019, 9, 730.	3.5	5
48	Altered Carbon Partitioning Enhances CO ₂ to Terpene Conversion in Cyanobacteria. <i>Biodesign Research</i> , 2022, 2022, .	1.9	5
49	The Ecological Perspective of Microbial Communities in Two Pairs of Competitive Hawaiian Native and Invasive Macroalgae. <i>Microbial Ecology</i> , 2013, 65, 361-370.	2.8	3
50	FCRL1 Regulates B Cell Receptor-Induced ERK Activation through GRB2. <i>Journal of Immunology</i> , 2021, 207, 2688-2698.	0.8	2
51	Hijacking high-flux metabolic pathways to enhance product yield in metabolic engineering. <i>Scientia Sinica Vitae</i> , 2017, 47, 262-270.	0.3	1
52	Special Section on Genome Editing and Engineering: For November/December 2020 Issue. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 823-823.	3.1	0
53	Advance in metabolic engineering of microalgae for biofuels and high-value compounds. <i>Scientia Sinica Vitae</i> , 2019, 49, 717-726.	0.3	0
54	How Does Photosynthesis Wake up in the Morning?. <i>Frontiers for Young Minds</i> , 0, 10, .	0.8	0

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55	Exploring the metabolic versatility of cyanobacteria for an emerging carbon-neutral bioeconomy. , 2022, , 165-187.		0