

# Xian-Hua Liu

## List of Publications by Year in descending order

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81  
papers

2,666  
citations

186265

28  
h-index

197818

49  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2770  
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	Distinct microplastic distributions in soils of different land-use types: A case study of Chinese farmlands. <i>Environmental Pollution</i> , 2021, 269, 116199.	7.5	152
3	Two-stage Hydrolysis of Invasive Algal Feedstock for Ethanol Fermentation. <i>Journal of Integrative Plant Biology</i> , 2011, 53, 246-252.	8.5	136
4	An overview of algae bioethanol production. <i>International Journal of Energy Research</i> , 2014, 38, 965-977.	4.5	103
5	Nutrient Loads Flowing into Coastal Waters from the Main Rivers of China (2006–2012). <i>Scientific Reports</i> , 2015, 5, 16678.	3.3	95
6	The impact of microplastic-microbe interactions on animal health and biogeochemical cycles: A mini-review. <i>Science of the Total Environment</i> , 2021, 773, 145697.	8.0	91
7	Carnation-like MnO <sub>2</sub> modified activated carbon air cathode improve power generation in microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 264, 248-253.	7.8	83
8	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
9	Fast photocatalytic degradation of dyes using low-power laser-fabricated Cu <sub>2</sub> O@Cu nanocomposites. <i>RSC Advances</i> , 2018, 8, 20277-20286.	3.6	70
10	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
11	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
12	Glycogen Metabolism Supports Photosynthesis Start through the Oxidative Pentose Phosphate Pathway in Cyanobacteria. <i>Plant Physiology</i> , 2020, 182, 507-517.	4.8	68
13	Performance of a low-cost direct glucose fuel cell with an anion-exchange membrane. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10979-10984.	7.1	59
14	Impacts of nitrogen pollution on corals in the context of global climate change and potential strategies to conserve coral reefs. <i>Science of the Total Environment</i> , 2021, 774, 145017.	8.0	56
15	A One-compartment direct glucose alkaline fuel cell with methyl viologen as electron mediator. <i>Applied Energy</i> , 2013, 106, 176-183.	10.1	54
16	Interactions Between Microplastics and Heavy Metals in Aquatic Environments: A Review. <i>Frontiers in Microbiology</i> , 2021, 12, 652520.	3.5	53
17	Ecological risk assessment to marine organisms induced by heavy metals in China's coastal waters. <i>Marine Pollution Bulletin</i> , 2018, 126, 349-356.	5.0	52
18	Fast photocatalytic degradation of methylene blue dye using a low-power diode laser. <i>Journal of Hazardous Materials</i> , 2015, 283, 267-275.	12.4	46

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19	Quantification and comparison of ammonia-oxidizing bacterial communities in MBRs treating various types of wastewater. <i>Bioresource Technology</i> , 2010, 101, 3054-3059.	9.6	44
20	Generating power from cellulose in an alkaline fuel cell enhanced by methyl viologen as an electron-transfer catalyst. <i>Journal of Power Sources</i> , 2014, 251, 222-228.	7.8	40
21	Enhanced saturated fatty acids accumulation in cultures of newly-isolated strains of <i>Schizochytrium</i> sp. and <i>Thraustochytriidae</i> sp. for large-scale biodiesel production. <i>Science of the Total Environment</i> , 2018, 631-632, 994-1004.	8.0	39
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	Emerging hydrovoltaic technology based on carbon black and porous carbon materials: A mini review. <i>Carbon</i> , 2022, 193, 339-355.	10.3	39
24	Macaroon-like FeCo <sub>2</sub> O <sub>4</sub> modified activated carbon anode for enhancing power generation in direct glucose fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8178-8187.	7.1	37
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	Heteroatom-doped highly porous carbon derived from petroleum coke as efficient cathode catalyst for microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13530-13537.	7.1	35
27	Abundance and Novel Lineages of Thraustochytrids in Hawaiian Waters. <i>Microbial Ecology</i> , 2013, 66, 823-830.	2.8	33
28	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
29	Comparative analysis reveals unexpected genome features of newly isolated Thraustochytrids strains: on ecological function and PUFAs biosynthesis. <i>BMC Genomics</i> , 2018, 19, 541.	2.8	30
30	Electricity generation from banana peels in an alkaline fuel cell with a Cu <sub>2</sub> O-Cu modified activated carbon cathode. <i>Science of the Total Environment</i> , 2018, 631-632, 849-856.	8.0	28
31	The global research trend on cadmium in freshwater: a bibliometric review. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71585-71598.	5.3	28
32	Rational modification in the photochromic and self-bleaching performance of hierarchical microsphere Cu@h-WO <sub>3</sub> /WO <sub>3</sub> ·nH <sub>2</sub> O composites. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110784.	6.2	26
33	3D porous nanostructured Ni <sub>3</sub> -Co <sub>3</sub> N as a robust electrode material for glucose fuel cell. <i>RSC Advances</i> , 2020, 10, 6444-6451.	3.6	25
34	Bio-Based Plastics Production, Impact and End of Life: A Literature Review and Content Analysis. <i>Sustainability</i> , 2022, 14, 4855.	3.2	25
35	Ionothermal synthesis of N-doped carbon supported CoMn <sub>2</sub> O <sub>4</sub> nanoparticles as ORR catalyst in direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20503-20515.	7.1	24
36	Bioelectrochemical system as an innovative technology for treatment of produced water from oil and gas industry: A review. <i>Chemosphere</i> , 2021, 285, 131428.	8.2	23

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37	Electricity generation from macroalgae <i>Enteromorpha prolifera</i> hydrolysates using an alkaline fuel cell. <i>Bioresource Technology</i> , 2016, 222, 226-231.	9.6	21
38	<i>Chlorella</i> -derived porous heteroatom-doped carbons as robust catalysts for oxygen reduction reaction in direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2823-2831.	7.1	20
39	Efficient charge transfer over Cu-doped hexagonal WO <sub>3</sub> nanocomposites for rapid photochromic response. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 425, 113716.	3.9	18
40	Differences in the Plasticspheres of Biodegradable and Non-biodegradable Plastics: A Mini Review. <i>Frontiers in Microbiology</i> , 2022, 13, 849147.	3.5	18
41	Electricity generation from a refuelable glucose alkaline fuel cell with a methyl viologen-immobilized activated carbon anode. <i>Electrochimica Acta</i> , 2016, 222, 1430-1437.	5.2	16
42	Impacts of sanitation upgrading to the decrease of fecal coliforms entering into the environment in China. <i>Environmental Research</i> , 2016, 149, 57-65.	7.5	16
43	The Performance of Electron-Mediator Modified Activated Carbon as Anode for Direct Glucose Alkaline Fuel Cell. <i>Catalysts</i> , 2016, 6, 95.	3.5	15
44	Characterization and robust nature of newly isolated oleaginous marine yeast <i>Rhodospiridium</i> spp. from coastal water of Northern China. <i>AMB Express</i> , 2017, 7, 30.	3.0	15
45	Gradients of three coastal environments off the South China Sea and their impacts on the dynamics of heterotrophic microbial communities. <i>Science of the Total Environment</i> , 2019, 659, 499-506.	8.0	12
46	A vertically configured photocatalytic-microbial fuel cell for electricity generation and gaseous toluene degradation. <i>Chemosphere</i> , 2021, 285, 131530.	8.2	12
47	ARTP Mutagenesis of <i>Schizochytrium</i> sp. PKU#Mn4 and Clethodim-Based Mutant Screening for Enhanced Docosahexaenoic Acid Accumulation. <i>Marine Drugs</i> , 2021, 19, 564.	4.6	12
48	Novel continuous up-flow MFC for treatment of produced water: Flow rate effect, microbial community, and flow simulation. <i>Chemosphere</i> , 2022, 289, 133186.	8.2	12
49	A single-chamber microbial fuel cell for rapid determination of biochemical oxygen demand using low-cost activated carbon as cathode catalyst. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 3228-3237.	2.2	10
50	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
51	Direct Electricity Generation from Dissolved Cellulosic Biomass in an Alkaline Fuel Cell. <i>Fuel Cells</i> , 2018, 18, 219-226.	2.4	8
52	Influence of Microplastics on the Growth and the Intestinal Microbiota Composition of Brine Shrimp. <i>Frontiers in Microbiology</i> , 2021, 12, 717272.	3.5	8
53	Derivation of copper water quality criteria in the Bohai Sea of China considering the effects of multiple environmental factors on copper toxicity. <i>Environmental Pollution</i> , 2022, 308, 119666.	7.5	8
54	Nano Copper Oxide-Modified Carbon Cloth as Cathode for a Two-Chamber Microbial Fuel Cell. <i>Nanomaterials</i> , 2016, 6, 238.	4.1	7

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55	Diversity of parasitic fungi associated with phytoplankton in Hawaiian waters. <i>Marine Biology Research</i> , 2016, 12, 294-303.	0.7	7
56	N, S and Transition-Metal Co-Doped Graphene Nanocomposites as High-Performance Catalyst for Glucose Oxidation in a Direct Glucose Alkaline Fuel Cell. <i>Nanomaterials</i> , 2021, 11, 202.	4.1	7
57	Self-assembled monolayer of lipoic acid on gold and its application to rapid determination of 2,3,7,8-tetrachlorodibenzo-p-dioxin. <i>Transactions of Tianjin University</i> , 2013, 19, 248-254.	6.4	6
58	Electrodeposition of Silver Nanoparticles on ITO Films with Different Thickness and Application as LSPR Sensor. <i>ECS Electrochemistry Letters</i> , 2014, 3, B30-B32.	1.9	6
59	Value-added apple-derived carbonaceous aerogel for robust supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30727-30738.	7.1	6
60	Impacts of Micro- and Nanoplastics on Photosynthesis Activities of Photoautotrophs: A Mini-Review. <i>Frontiers in Microbiology</i> , 2021, 12, 773226.	3.5	6
61	Use of multivariate calibration models based on UV-Vis spectra for seawater quality monitoring in Tianjin Bohai Bay, China. <i>Water Science and Technology</i> , 2015, 71, 1444-1450.	2.5	5
62	Marine Algae-Derived Porous Carbons as Robust Electrocatalysts for ORR. <i>Catalysts</i> , 2019, 9, 730.	3.5	5
63	Genome engineering and synthetic biology for biofuels: A bibliometric analysis. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 824-834.	3.1	5
64	Comparison of three palm tree peroxidases expressed by <i>Escherichia coli</i> : Uniqueness of African oil palm peroxidase. <i>Protein Expression and Purification</i> , 2021, 179, 105806.	1.3	5
65	<i>Ketobacter nezhaai</i> sp. nov., a marine bacterium isolated from coastal sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 4960-4965.	1.7	5
66	Co <sup>2+</sup> -P(W <sub>3</sub> O <sub>10</sub> ) <sub>4</sub> <sup>3-</sup> modified activated carbon as an efficient anode catalyst for direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 22952-22962.	7.1	5
67	Hydrothermal synthesis of natroalunite nanostructures and their F <sup>-</sup> -ion removal properties in water. <i>CrystEngComm</i> , 2019, 21, 4987-4995.	2.6	4
68	ZnO@zeolitic imidazolate frameworks derived porous hybrid hollow carbon shell as an efficient electrocatalyst for oxygen reduction. <i>Journal of Materials Science</i> , 2021, 56, 14989-15003.	3.7	4
69	Sweet Drinks as Fuels for an Alkaline Fuel Cell with Nonprecious Catalysts. <i>Energies</i> , 2021, 14, 206.	3.1	4
70	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
71	Optimization of Fabrication Parameters to Enhance the Performance of Activated Carbon Air-Cathode. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1347-F1355.	2.9	3
72	Energy extraction from seaweed under low temperatures by using an alkaline fuel cell. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 2107-2115.	2.3	3

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73	Synergistic approach of high-performance N-NiCo/PC environment benign electrode material for energy storage device. Journal of Materials Science: Materials in Electronics, 2021, 32, 22245-22255.	2.2	3
74	Physically mixed Ni <sub>2</sub> Co/graphene catalyst for enhanced glucose oxidation in a glucose fuel cell. Biomass Conversion and Biorefinery, 2024, 14, 525-537.	4.6	3
75	Decolorization of methylene blue in aqueous suspensions of gold nanoparticles using parallel nanosecond pulsed laser. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 1583-1591.	1.7	2
76	Study on Real-Time Monitoring of Seawater COD by UV-Vis Spectroscopy. Advanced Materials Research, 2013, 726-731, 1534-1537.	0.3	2
77	Research on Teaching Reform on Environmental Biochemistry Based on Teaching Materials. Communications in Computer and Information Science, 2011, , 22-25.	0.5	1
78	Determination of flavonoids and their antioxidant capacities in Chinese Jujube. , 2011, , .		0
79	Photocatalytic Degradation of 2,4,5-trichlorophenol (TCP) in TiO <sub>2</sub> /UV/H <sub>2</sub> O <sub>2</sub> System. Advanced Materials Research, 2012, 518-523, 2649-2652.	0.3	0
80	Study on Emission Control of Dioxins by Thermal Decomposition. Advanced Materials Research, 0, 726-731, 2079-2083.	0.3	0
81	Editorial: Microplastics and Microorganisms in the Environment. Frontiers in Microbiology, 0, 13, .	3.5	0