

# Hongxiang Chai

## List of Publications by Year in descending order

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75  
papers

2,589  
citations

218592

26  
h-index

189801

50  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of nitrification and denitrification to nitrous oxide turnovers in membrane-aerated biofilm reactors (MABR): A model-based evaluation. <i>Science of the Total Environment</i> , 2022, 806, 151321.	3.9	6
2	Biochar and woodchip amended bioreactor extending reactive volume for enhanced denitrification in stormwater runoff. <i>Journal of Water Process Engineering</i> , 2022, 46, 102541.	2.6	6
3	New insight into ammonium oxidation processes and mechanisms mediated by manganese oxide in constructed wetlands. <i>Water Research</i> , 2022, 215, 118251.	5.3	39
4	Insight into thiosulfate-driven denitrification and anammox process: Bigger aggregates driving better nitrite utilization on ammonium and nitrate contained wastewater. <i>Journal of Water Process Engineering</i> , 2022, 47, 102669.	2.6	7
5	Extracellular DNA plays a key role in the structural stability of sulfide-based denitrifying biofilms. <i>Science of the Total Environment</i> , 2022, 838, 155822.	3.9	6
6	The MOF/LDH derived heterostructured Co <sub>3</sub> O <sub>4</sub> /MnCo <sub>2</sub> O <sub>4</sub> composite for enhanced degradation of levofloxacin by peroxymonosulfate activation. <i>Separation and Purification Technology</i> , 2022, 294, 121182.	3.9	23
7	Corn-cob-pyrite bioretention system for enhanced dissolved nutrient treatment: Carbon source release and mixotrophic denitrification. <i>Chemosphere</i> , 2022, 306, 135534.	4.2	13
8	Effects of green waste addition on waste activated sludge and fat, oil and grease co-digestion in mesophilic batch digester. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1-15.	1.2	6
9	Comprehensive evaluation of stormwater pollutants characteristics, purification process and environmental impact after low impact development practices. <i>Journal of Cleaner Production</i> , 2021, 278, 123509.	4.6	39
10	Co-digestive performance of food waste and hydrothermal pretreated corn cob. <i>Science of the Total Environment</i> , 2021, 768, 144448.	3.9	18
11	Aged landfill leachate enhances anaerobic digestion of waste activated sludge. <i>Journal of Environmental Management</i> , 2021, 293, 112853.	3.8	26
12	The POM@MOF hybrid derived hierarchical hollow Mo/Co bimetal oxides nanocages for efficiently activating peroxymonosulfate to degrade levofloxacin. <i>Journal of Hazardous Materials</i> , 2021, 419, 126360.	6.5	72
13	A Bayesian-SWMM coupled stochastic model developed to reconstruct the complete profile of an unknown discharging incidence in sewer networks. <i>Journal of Environmental Management</i> , 2021, 297, 113211.	3.8	8
14	Biochar-pyrite bi-layer bioretention system for dissolved nutrient treatment and by-product generation control under various stormwater conditions. <i>Water Research</i> , 2021, 206, 117737.	5.3	40
15	Study on the Influence of Sponge Road Bioretention Facility on the Stability of Subgrade Slope. <i>Water (Switzerland)</i> , 2021, 13, 3466.	1.2	3
16	Enhanced nitrate adsorption by using cetyltrimethylammonium chloride pre-loaded activated carbon. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3562-3572.	1.2	15
17	Engineering magnetic N-doped porous carbon with super-high ciprofloxacin adsorption capacity and wide pH adaptability. <i>Journal of Hazardous Materials</i> , 2020, 388, 122059.	6.5	66
18	ZIF-mediated N-doped hollow porous carbon as a high performance adsorbent for tetracycline removal from water with wide pH range. <i>Environmental Research</i> , 2020, 182, 109059.	3.7	52

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19	Highly efficient activation of peroxymonosulfate by cobalt sulfide hollow nanospheres for fast ciprofloxacin degradation. <i>Journal of Hazardous Materials</i> , 2020, 389, 121856.	6.5	108
20	Size-controllable Fe-N/C single-atom nanozyme with exceptional oxidase-like activity for sensitive detection of alkaline phosphatase. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127511.	4.0	204
21	Transport of Tl(I) in water-saturated porous media: Role of carbonate, phosphate and macromolecular organic matter. <i>Water Research</i> , 2020, 186, 116325.	5.3	17
22	Electron buffer formation through coupling thiosulfate-dependent denitrification with anammox in a single-stage sequencing batch reactor. <i>Bioresource Technology</i> , 2020, 312, 123560.	4.8	24
23	Functional microorganisms and enzymes related nitrogen cycle in the biofilm performing simultaneous nitrification and denitrification. <i>Bioresource Technology</i> , 2020, 314, 123697.	4.8	43
24	Study of pyrite based autotrophic denitrification system for low-carbon source stormwater treatment. <i>Journal of Water Process Engineering</i> , 2020, 37, 101414.	2.6	56
25	Enhancement of performance and stability of anaerobic co-digestion of waste activated sludge and kitchen waste by using bentonite. <i>PLoS ONE</i> , 2019, 14, e0218856.	1.1	35
26	Fabrication of CuO nanosheets-built microtubes via Kirkendall effect for non-enzymatic glucose sensor. <i>Applied Surface Science</i> , 2019, 494, 484-491.	3.1	80
27	Long-term pollutant removal performance and mitigation of rainwater quality deterioration with ceramsite and <i>Cyperus alternifolius</i> in mountainous cities of China. <i>Environmental Science and Pollution Research</i> , 2019, 26, 32993-33003.	2.7	4
28	Facilitating effects of plant hormones on biomass production and nutrients removal by <i>Tetraselmis cordiformis</i> for advanced sewage treatment and its mechanism. <i>Science of the Total Environment</i> , 2019, 693, 133650.	3.9	16
29	Enhanced simultaneous nitrification and denitrification in treating low carbon-to-nitrogen ratio wastewater: Treatment performance and nitrogen removal pathway. <i>Bioresource Technology</i> , 2019, 280, 51-58.	4.8	94
30	Nitrous oxide emission mitigation during low-carbon source wastewater treatment: effect of external carbon source supply strategy. <i>Environmental Science and Pollution Research</i> , 2019, 26, 23095-23107.	2.7	18
31	Enhanced thermoelectric properties of YbZn <sub>2</sub> Sb <sub>2</sub> xBi <sub>x</sub> through a synergistic effect via Bi-doping. <i>Chemical Engineering Journal</i> , 2019, 374, 589-595.	6.6	38
32	Digestive performance of sludge with different crop straws in mesophilic anaerobic digestion. <i>Bioresource Technology</i> , 2019, 289, 121595.	4.8	45
33	Introducing bifunctional metal-organic frameworks to the construction of a novel ratiometric fluorescence sensor for screening acid phosphatase activity. <i>Biosensors and Bioelectronics</i> , 2019, 137, 133-139.	5.3	101
34	Effects of green waste participation on the co-digestion of residual sludge and kitchen waste: A preliminary study. <i>Science of the Total Environment</i> , 2019, 671, 838-849.	3.9	61
35	An integrated urban stormwater model system supporting the whole life cycle of sponge city construction programs in China. <i>Journal of Water and Climate Change</i> , 2019, 10, 298-312.	1.2	13
36	The alleviative effect of exogenous phytohormones on the growth, physiology and gene expression of <i>Tetraselmis cordiformis</i> under high ammonia-nitrogen stress. <i>Bioresource Technology</i> , 2019, 282, 339-347.	4.8	40

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37	Pollutant removal performance of an integrated system that combines a baffled vertical-flow wetland and a scenic water body. <i>Environmental Science and Pollution Research</i> , 2019, 26, 269-281.	2.7	6
38	Activation of sodium percarbonate by vanadium for the degradation of aniline in water: Mechanism and identification of reactive species. <i>Chemosphere</i> , 2019, 215, 647-656.	4.2	59
39	Assessment of runoff treatment operations with combined rainwater treatment system in the old city zone. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 2507-2516.	1.0	2
40	FeNPs@Co <sub>3</sub> O <sub>4</sub> hollow nanocages hybrids as effective peroxidase mimics for glucose biosensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 575-584.	4.0	83
41	A Co,N co-doped hierarchically porous carbon hybrid as a highly efficient oxidase mimetic for glutathione detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 312-319.	4.0	127
42	One-pot synthesis of the CuNCs/ZIF-8 nanocomposites for sensitively detecting H <sub>2</sub> O <sub>2</sub> and screening of oxidase activity. <i>Biosensors and Bioelectronics</i> , 2018, 105, 65-70.	5.3	108
43	Analysis of the sediment remobilization phenomenon in a rain garden using CSTR theory. <i>Journal of Water and Climate Change</i> , 2018, 9, 356-366.	1.2	3
44	ZIF-67 derived hollow cobalt sulfide as superior adsorbent for effective adsorption removal of ciprofloxacin antibiotics. <i>Chemical Engineering Journal</i> , 2018, 344, 95-104.	6.6	196
45	High peroxidase-like activity of metallic cobalt nanoparticles encapsulated in metal-organic frameworks derived carbon for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2050-2057.	4.0	73
46	Ultrasound-Assisted Removal of Tetracycline by a Fe/N-C Hybrids/H <sub>2</sub> O <sub>2</sub> /Fenton-like System. <i>ACS Omega</i> , 2018, 3, 15870-15878.	1.6	25
47	Enhancement of Organic Matter Removal in an Integrated Biofilm-Membrane Bioreactor Treating High-Salinity Wastewater. <i>Archaea</i> , 2018, 2018, 1-8.	2.3	11
48	Annual variation patterns of the effluent water quality from a green roof and the overall impacts of its structure. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30170-30179.	2.7	18
49	Mesophilic anaerobic co-digestion of residual sludge with different lignocellulosic wastes in the batch digester. <i>Bioresource Technology</i> , 2018, 268, 371-381.	4.8	71
50	Recent advances in the construction and analytical applications of metal-organic frameworks-based nanozymes. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 391-403.	5.8	253
51	Assessment of low concentration wastewater treatment operations with dewatered alum sludge-based sequencing batch constructed wetland system. <i>Scientific Reports</i> , 2017, 7, 17497.	1.6	12
52	A Novel SWMM Based Algorithm Application to Storm Sewer Network Design. <i>Water (Switzerland)</i> , 2017, 9, 747.	1.2	16
53	Effect of Biofilm Density on Nitrous Oxide Emissions and Treatment Efficiency on Sequencing Batch Biofilm Reactor. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	9
54	Influence of organic loading rate on integrated bioreactor treating hypersaline mustard wastewater. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 590-594.	1.4	4

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55	A technology for the standpipe in flat roof of green building community. <i>Agricultural Water Management</i> , 2016, 174, 103-107.	2.4	2
56	Optimization of membrane fouling process for mustard tuber wastewater treatment in an anoxic-oxic biofilm-membrane bioreactor. <i>Environmental Engineering Research</i> , 2016, 21, 196-202.	1.5	12
57	Start-up test on anaerobic sequencing batch biofilm reactor treating mustard tuber wastewater of the Three Gorges Reservoir in China. <i>Desalination and Water Treatment</i> , 2015, 53, 3449-3456.	1.0	1
58	Effects of volumetric load in an anaerobic sequencing batch biofilm treating industrial saline wastewater. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 648-653.	1.2	4
59	Influence of Material on Membrane Fouling and Cleaning Results of Mustard Tuber Wastewater Treatment by Membrane Bioreactor. <i>Asian Journal of Chemistry</i> , 2014, 26, 3246-3248.	0.1	0
60	Membrane Fouling and Cleaning by Hybrid Membrane Bioreactor Treating Mustard Tuber Wastewater. <i>Asian Journal of Chemistry</i> , 2014, 26, 3249-3252.	0.1	1
61	Effects of Microbe Concentration and Operation Conditions on Membrane Fouling in Treating Mustard Tuber Wastewater by Membrane Bioreactor. <i>Asian Journal of Chemistry</i> , 2014, 26, 3253-3255.	0.1	0
62	Biological Treatment of Mustard Tuber Wastewater and Urban Sewage by Cyclic Activated Sludge System. <i>Asian Journal of Chemistry</i> , 2014, 26, 3261-3264.	0.1	3
63	Effect of baffled water-holding garden system on disposal of rainwater for green building residential districts. <i>Desalination and Water Treatment</i> , 2014, 52, 2717-2723.	1.0	5
64	An Application Case of Low Carbon Rainwater Utilization in Green Building. , 2013, , .		0
65	Application of an Economic Cost Target Analysis Model of the Co-Operation Waste Water Treatment Plants of Small towns. , 2013, , .		0
66	Seasonal Performance of Sequencing Batch Biofilm Reactors and Ecosystem Sewage Treatment Hybrid Processes in Small Towns of the Three Gorges Reservoir Area in China. <i>Biotechnology and Biotechnological Equipment</i> , 2013, 27, 4276-4283.	0.5	0
67	Multiobjective Models for Central Plant Site Selection in Joint WWTPs Operation of Small Towns. <i>Advanced Materials Research</i> , 2012, 518-523, 2585-2592.	0.3	2
68	Efficiency influence of exogenous betaine on anaerobic sequencing batch biofilm reactor treating high salinity mustard tuber wastewater. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 1695-1699.	1.2	9
69	Influence of Biofilm Density on Anaerobic Sequencing Batch Biofilm Reactor Treating Mustard Tuber Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1664-1671.	1.4	25
70	Pretreatment of hypersaline mustard wastewater with integrated bioreactor. <i>Journal of Central South University</i> , 2012, 19, 1673-1678.	1.2	3
71	WATER CONSERVATION: CONSTRUCTION AND OPERATION OF MANAGEMENT AND TECHNOLOGY SYSTEMS FOR GREEN CAMPUS. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 931-936.	0.2	1
72	ELECTROCHEMICAL TREATMENT OF MUSTARD WASTEWATER USING CARBON PAPER ELECTRODE. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 813-817.	0.2	0

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73	INCREMENTAL COST ALGORITHM OF WATER-SAVING PROJECTS FOR GREEN BUILDING. Environmental Engineering and Management Journal, 2011, 10, 919-924.	0.2	1
74	Engineering Applications on Reclaimed Water Treatment and Reuse of Hotel's High Grade Gray Water. Advanced Materials Research, 0, 610-613, 2391-2396.	0.3	2
75	Water Balance Optimization of Non-Traditional Water Resources Utilization in Green Building Based on Landscape Water Regulation Function. Applied Mechanics and Materials, 0, 170-173, 2329-2334.	0.2	0