

Huacheng Xu

List of Publications by Year in descending order

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78
papers

3,732
citations

117453

34
h-index

138251

58
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78
all docs

78
docs citations

78
times ranked

2876
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile preparation of magnetic porous biochars from tea waste for the removal of tetracycline from aqueous solutions: Effect of pyrolysis temperature. <i>Chemosphere</i> , 2022, 291, 132713.	4.2	8
2	Resuspension and settlement characteristics of lake sediments amended by phosphorus inactivating materials: Implications for environmental remediation. <i>Journal of Environmental Management</i> , 2022, 302, 113892.	3.8	10
3	Ceramsite production using water treatment residue as main ingredient: The key affecting factors identification. <i>Journal of Environmental Management</i> , 2022, 308, 114611.	3.8	11
4	Development of phosphorus composite biochar for simultaneous enhanced carbon sink and heavy metal immobilization in soil. <i>Science of the Total Environment</i> , 2022, 831, 154845.	3.9	28
5	Improved adsorption properties of tetracycline on KOH/KMnO ₄ modified biochar derived from wheat straw. <i>Chemosphere</i> , 2022, 296, 133981.	4.2	74
6	Assessing the enhanced reduction effect with the addition of sulfate based P inactivating material during algal bloom sedimentation. <i>Chemosphere</i> , 2022, 300, 134656.	4.2	0
7	Quantifying the bioaccumulation of Pb to <i>Chlorella vulgaris</i> in the presence of dissolved organic matters with different molecular weights. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70921-70932.	2.7	5
8	Dissolved organic matters with low molecular weight fractions exhibit high photochemical potential for reactive oxygen formation. <i>Chemosphere</i> , 2022, 305, 135542.	4.2	10
9	Investigation of carbon dynamics in rhizosphere by synchrotron radiation-based Fourier transform infrared combined with two dimensional correlation spectroscopy. <i>Science of the Total Environment</i> , 2021, 762, 143078.	3.9	13
10	Organic matter stabilized Fe in drinking water treatment residue with implications for environmental remediation. <i>Water Research</i> , 2021, 189, 116688.	5.3	20
11	Effect of carbonization methods on the properties of tea waste biochars and their application in tetracycline removal from aqueous solutions. <i>Chemosphere</i> , 2021, 267, 129283.	4.2	80
12	High cadmium pollution from sediments in a eutrophic lake caused by dissolved organic matter complexation and reduction of manganese oxide. <i>Water Research</i> , 2021, 190, 116711.	5.3	61
13	Effect of Fe-N modification on the properties of biochars and their adsorption behavior on tetracycline removal from aqueous solution. <i>Bioresource Technology</i> , 2021, 325, 124732.	4.8	198
14	Dynamic changes in size-fractionated dissolved organic matter composition in a seasonally ice-covered Arctic River. <i>Limnology and Oceanography</i> , 2021, 66, 3085-3099.	1.6	22
15	Burst of hydroxyl radicals in sediments derived by flooding/drought transformation process in Lake Poyang, China. <i>Science of the Total Environment</i> , 2021, 772, 145059.	3.9	13
16	The release inhibition of organic substances from microplastics in the presence of algal derived organic matters: Influence of the molecular weight-dependent inhibition heterogeneities. <i>Environmental Research</i> , 2021, 200, 111424.	3.7	11
17	Formation and mechanisms of hydroxyl radicals during the oxygenation of sediments in Lake Poyang, China. <i>Water Research</i> , 2021, 202, 117442.	5.3	29
18	Comparison in UV-induced photodegradation properties of dissolved organic matters with different origins. <i>Chemosphere</i> , 2021, 280, 130633.	4.2	18

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19	Drinking water treatment residue structures nitrogen-cycling microbiomes with consequences for high nitrogen conversion. <i>Journal of Cleaner Production</i> , 2021, 320, 128840.	4.6	7
20	Effects of co-exposure to copper and humic acids on microalga <i>Chlorella vulgaris</i> : growth inhibition, oxidative stress, and extracellular secretion. <i>Environmental Pollutants and Bioavailability</i> , 2021, 33, 415-424.	1.3	7
21	The composition difference of macrophyte litter-derived dissolved organic matter by photodegradation and biodegradation: Role of reactive oxygen species on refractory component. <i>Chemosphere</i> , 2020, 242, 125155.	4.2	37
22	Biochar as simultaneous shelter, adsorbent, pH buffer, and substrate of <i>Pseudomonas citronellolis</i> to promote biodegradation of high concentrations of phenol in wastewater. <i>Water Research</i> , 2020, 172, 115494.	5.3	151
23	Adsorption of cyanobacterial extracellular polymeric substance on colloidal particle: Influence of molecular weight. <i>Science of the Total Environment</i> , 2020, 715, 136959.	3.9	24
24	Adsorption and molecular weight fractionation of dissolved organic matters with different origins on colloidal surface. <i>Chemosphere</i> , 2020, 261, 127774.	4.2	13
25	Characterization and modification of the molecular weight distribution within dissolved organic matter using flow field-flow fractionation. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 560-569.	1.0	4
26	Nitrogen Transformation during Pyrolysis of Various N-Containing Biowastes with Participation of Mineral Calcium. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12197-12207.	3.2	48
27	Molecular weight-dependent heterogeneities in photochemical formation of hydroxyl radical from dissolved organic matters with different sources. <i>Science of the Total Environment</i> , 2020, 725, 138402.	3.9	16
28	Photogeneration and steady-state concentration of hydroxyl radical in river and lake waters along middle-lower Yangtze region, China. <i>Water Research</i> , 2020, 176, 115774.	5.3	30
29	Molecular weight-dependent adsorption fractionation of natural organic matter on ferrihydrite colloids in aquatic environment. <i>Chemical Engineering Journal</i> , 2019, 363, 356-364.	6.6	63
30	A simple method to improve the adsorption properties of drinking water treatment residue by lanthanum modification. <i>Chemosphere</i> , 2019, 221, 750-757.	4.2	10
31	Improved lignin degradation through distinct microbial community in subsurface sediments of one eutrophic lake. <i>Renewable Energy</i> , 2019, 138, 861-869.	4.3	25
32	Development of a sediment microbial fuel cell-based biosensor for simultaneous online monitoring of dissolved oxygen concentrations along various depths in lake water. <i>Science of the Total Environment</i> , 2019, 673, 272-280.	3.9	53
33	Desorption of nitrogen from drinking water treatment residue: Implications for environmental recycling. <i>Journal of Cleaner Production</i> , 2019, 226, 96-105.	4.6	13
34	Anaerobic ammonium oxidation coupled to ferric iron reduction in the sediment of a eutrophic lake. <i>Environmental Science and Pollution Research</i> , 2019, 26, 15084-15094.	2.7	28
35	Molecular weight-dependent spectral and metal binding properties of sediment dissolved organic matter from different origins. <i>Science of the Total Environment</i> , 2019, 665, 828-835.	3.9	102
36	Effects of molecular weight fractions and chemical properties of time-series cyanobacterial extracellular polymeric substances on the aggregation of lake colloidal particles. <i>Science of the Total Environment</i> , 2019, 692, 1201-1208.	3.9	17

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37	Abundance, chemical composition and lead adsorption properties of sedimentary colloids in a eutrophic shallow lake. <i>Chemosphere</i> , 2019, 218, 534-539.	4.2	16
38	Contrasting effects of photochemical and microbial degradation on Cu(II) binding with fluorescent DOM from different origins. <i>Environmental Pollution</i> , 2018, 239, 205-214.	3.7	70
39	Intriguing changes in molecular size and composition of dissolved organic matter induced by microbial degradation and self-assembly. <i>Water Research</i> , 2018, 135, 187-194.	5.3	93
40	Variations in size and composition of colloidal organic matter in a negative freshwater estuary. <i>Science of the Total Environment</i> , 2018, 615, 931-941.	3.9	40
41	Temporal and spatial distribution of <i>Microcystis</i> biomass and genotype in bloom areas of Lake Taihu. <i>Chemosphere</i> , 2018, 209, 730-738.	4.2	20
42	Dissolved organic matter binding with Pb(II) as characterized by differential spectra and 2D UV-FTIR heterospectral correlation analysis. <i>Water Research</i> , 2018, 144, 435-443.	5.3	73
43	Dynamic molecular size transformation of aquatic colloidal organic matter as a function of pH and cations. <i>Water Research</i> , 2018, 144, 543-552.	5.3	35
44	Magnetic particles modification of coconut shell-derived activated carbon and biochar for effective removal of phenol from water. <i>Chemosphere</i> , 2018, 211, 962-969.	4.2	155
45	Characterization, origin and aggregation behavior of colloids in eutrophic shallow lake. <i>Water Research</i> , 2018, 142, 176-186.	5.3	58
46	<i>Flavobacterium aurantibacter</i> sp. nov., an orange-pigmented bacterium isolated from cyanobacterial aggregates in a eutrophic lake. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 1839-1844.	0.8	6
47	Toward Quantitative Understanding of the Bioavailability of Dissolved Organic Matter in Freshwater Lake during Cyanobacteria Blooming. <i>Environmental Science & Technology</i> , 2017, 51, 6018-6026.	4.6	85
48	Molecular size-dependent abundance and composition of dissolved organic matter in river, lake and sea waters. <i>Water Research</i> , 2017, 117, 115-126.	5.3	187
49	Algal bloom sedimentation induces variable control of lake eutrophication by phosphorus inactivating agents. <i>Science of the Total Environment</i> , 2016, 557-558, 479-488.	3.9	39
50	High-resolution measurement and mapping of tungstate in waters, soils and sediments using the low-disturbance DGT sampling technique. <i>Journal of Hazardous Materials</i> , 2016, 316, 69-76.	6.5	48
51	Electrolyte Cations Binding with Extracellular Polymeric Substances Enhanced <i>Microcystis</i> Aggregation: Implication for <i>Microcystis</i> Bloom Formation in Eutrophic Freshwater Lakes. <i>Environmental Science & Technology</i> , 2016, 50, 9034-9043.	4.6	60
52	Extracellular polymeric substances facilitate the biosorption of phenanthrene on cyanobacteria <i>Microcystis aeruginosa</i> . <i>Chemosphere</i> , 2016, 162, 172-180.	4.2	39
53	Interactions of metal oxide nanoparticles with extracellular polymeric substances (EPS) of algal aggregates in an eutrophic ecosystem. <i>Ecological Engineering</i> , 2016, 94, 464-470.	1.6	30
54	Aggregation kinetics of inorganic colloids in eutrophic shallow lakes: Influence of cyanobacterial extracellular polymeric substances and electrolyte cations. <i>Water Research</i> , 2016, 106, 344-351.	5.3	29

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55	pH-dependent phosphatization of ZnO nanoparticles and its influence on subsequent lead sorption. <i>Environmental Pollution</i> , 2016, 208, 723-731.	3.7	18
56	Depth-dependent variations of sedimentary dissolved organic matter composition in a eutrophic lake: Implications for lake restoration. <i>Chemosphere</i> , 2016, 145, 551-559.	4.2	59
57	Variation of physicochemical properties of drinking water treatment residuals and Phoslock® induced by fulvic acid adsorption: Implication for lake restoration. <i>Environmental Science and Pollution Research</i> , 2016, 23, 351-365.	2.7	8
58	Novel Precipitated Zirconia-Based DGT Technique for High-Resolution Imaging of Oxyanions in Waters and Sediments. <i>Environmental Science & Technology</i> , 2015, 49, 3653-3661.	4.6	105
59	Two-dimension fluorescence correlation spectroscopy to characterize the binding of organic ligands with zinc in eutrophic lake. <i>Chinese Chemical Letters</i> , 2015, 26, 205-209.	4.8	18
60	Effects of cyanobacterial extracellular polymeric substances on the stability of ZnO nanoparticles in eutrophic shallow lakes. <i>Environmental Pollution</i> , 2015, 197, 231-239.	3.7	41
61	<i>Niveispirillum cyanobacteriorum</i> sp. nov., a nitrogen-fixing bacterium isolated from cyanobacterial aggregates in a eutrophic lake. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 2537-2541.	0.8	16
62	Further Insights into Metal-DOM Interaction: Consideration of Both Fluorescent and Non-Fluorescent Substances. <i>PLoS ONE</i> , 2014, 9, e112272.	1.1	12
63	Towards understanding the role of extracellular polymeric substances in cyanobacterial <i>Microcystis</i> aggregation and mucilaginous bloom formation. <i>Chemosphere</i> , 2014, 117, 815-822.	4.2	89
64	Investigation on extracellular polymeric substances from mucilaginous cyanobacterial blooms in eutrophic freshwater lakes. <i>Chemosphere</i> , 2013, 93, 75-81.	4.2	106
65	Characteristics and kinetics of ammonia and N ₂ O emissions of aged refuse irrigated from landfill leachate. <i>Waste Management</i> , 2013, 33, 1229-1236.	3.7	4
66	Heterogeneity in metal binding by individual fluorescent components in a eutrophic algae-rich lake. <i>Ecotoxicology and Environmental Safety</i> , 2013, 98, 266-272.	2.9	56
67	Architecture and functional groups of biofilms during composting with and without inoculation. <i>Process Biochemistry</i> , 2013, 48, 1222-1226.	1.8	7
68	Combination of two-dimensional correlation spectroscopy and parallel factor analysis to characterize the binding of heavy metals with DOM in lake sediments. <i>Journal of Hazardous Materials</i> , 2013, 263, 412-421.	6.5	155
69	UV-induced photochemical heterogeneity of dissolved and attached organic matter associated with cyanobacterial blooms in a eutrophic freshwater lake. <i>Water Research</i> , 2013, 47, 6506-6515.	5.3	86
70	Insights into extracellular polymeric substances of <i>Cyanobacterium Microcystis aeruginosa</i> using fractionation procedure and parallel factor analysis. <i>Water Research</i> , 2013, 47, 2005-2014.	5.3	251
71	Recovery of phosphorus as struvite from sewage sludge ash. <i>Journal of Environmental Sciences</i> , 2012, 24, 1533-1538.	3.2	137
72	Enhanced anaerobic digestion and sludge dewaterability by alkaline pretreatment and its mechanism. <i>Journal of Environmental Sciences</i> , 2012, 24, 1731-1738.	3.2	48

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73	Fraction Distributions of Phosphorus in Sewage Sludge and Sludge Ash. Waste and Biomass Valorization, 2012, 3, 355-361.	1.8	29
74	Effects of activated sludge flocs and pellets seeds on aerobic granule properties. Journal of Environmental Sciences, 2011, 23, 537-544.	3.2	11
75	Effect of ultrasonic pretreatment on anaerobic digestion and its sludge dewaterability. Journal of Environmental Sciences, 2011, 23, 1472-1478.	3.2	35
76	Anaerobic storage as a pretreatment for enhanced biodegradability of dewatered sewage sludge. Bioresource Technology, 2011, 102, 667-671.	4.8	30
77	Effects of ultrasonic pretreatment on sludge dewaterability and extracellular polymeric substances distribution in mesophilic anaerobic digestion. Journal of Environmental Sciences, 2010, 22, 474-480.	3.2	39
78	Three-dimensional excitation emission matrix fluorescence spectroscopy and gel-permeating chromatography to characterize extracellular polymeric substances in aerobic granulation. Water Science and Technology, 2010, 61, 2931-2942.	1.2	30