

Zhixiang Xu

List of Publications by Year in descending order

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81
papers

2,481
citations

218677

26
h-index

223800

46
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81
all docs

81
docs citations

81
times ranked

2854
citing authors

#	ARTICLE	IF	CITATIONS
1	A magnetically recyclable chitosan composite adsorbent functionalized with EDTA for simultaneous capture of anionic dye and heavy metals in complex wastewater. <i>Chemical Engineering Journal</i> , 2019, 356, 69-80.	12.7	275
2	Preparation and antibacterial properties of gold nanoparticles: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 167-187.	16.2	121
3	Occurrence, removal and bioaccumulation of steroid estrogens in Dianchi Lake catchment, China. <i>Environment International</i> , 2013, 59, 262-273.	10.0	107
4	Enhanced treatment of pharmaceutical wastewater by combining three-dimensional electrochemical process with ozonation to in situ regenerate granular activated carbon particle electrodes. <i>Separation and Purification Technology</i> , 2019, 208, 12-18.	7.9	106
5	Magnetic chitosan biopolymer as a versatile adsorbent for simultaneous and synergistic removal of different sorts of dyestuffs from simulated wastewater. <i>Chemical Engineering Journal</i> , 2020, 385, 123926.	12.7	98
6	A novel Fe ³⁺ -stabilized magnetic polydopamine composite for enhanced selective adsorption and separation of Methylene blue from complex wastewater. <i>Journal of Hazardous Materials</i> , 2020, 392, 122263.	12.4	96
7	A versatile β -cyclodextrin and polyethyleneimine bi-functionalized magnetic nanoadsorbent for simultaneous capture of methyl orange and Pb(II) from complex wastewater. <i>Chemosphere</i> , 2019, 216, 605-616.	8.2	87
8	Abundance and distribution characteristics of microplastic in plateau cultivated land of Yunnan Province, China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 1675-1688.	5.3	81
9	A critical review on the applications and potential risks of emerging MoS ₂ nanomaterials. <i>Journal of Hazardous Materials</i> , 2020, 399, 123057.	12.4	76
10	Occurrence, removal, and fate of progestogens, androgens, estrogens, and phenols in six sewage treatment plants around Dianchi Lake in China. <i>Environmental Science and Pollution Research</i> , 2014, 21, 12898-12908.	5.3	68
11	Highly stable and covalently functionalized magnetic nanoparticles by polyethyleneimine for Cr(VI) adsorption in aqueous solution. <i>RSC Advances</i> , 2015, 5, 1398-1405.	3.6	67
12	Cleaning chromium pollution in aquatic environments by bioremediation, photocatalytic remediation, electrochemical remediation and coupled remediation systems. <i>Environmental Chemistry Letters</i> , 2020, 18, 561-576.	16.2	65
13	Nitrogen-rich core/shell magnetic nanostructures for selective adsorption and separation of anionic dyes from aqueous solution. <i>Environmental Science: Nano</i> , 2016, 3, 670-681.	4.3	58
14	Nonmonotonic responses to low doses of xenoestrogens: A review. <i>Environmental Research</i> , 2017, 155, 199-207.	7.5	52
15	Ecotoxicological effects and removal of ¹⁷ β -estradiol in chlorella algae. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 377-383.	6.0	48
16	Electrochemically modified dissolved organic matter accelerates the combining photodegradation and biodegradation of ¹⁷ β -ethinylestradiol in natural aquatic environment. <i>Water Research</i> , 2018, 137, 251-261.	11.3	47
17	Photodegradation of ¹⁷ β -ethinylestradiol in dissolved humic substances solution: Kinetics, mechanism and estrogenicity variation. <i>Journal of Environmental Sciences</i> , 2017, 54, 196-205.	6.1	44
18	Mitigating ¹⁷ β -ethinylestradiol water contamination through binding and photosensitization by dissolved humic substances. <i>Journal of Hazardous Materials</i> , 2017, 327, 197-205.	12.4	43

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19	Effects and bioaccumulation of 17 β -estradiol and 17 α -ethynylestradiol following long-term exposure in crucian carp. <i>Ecotoxicology and Environmental Safety</i> , 2015, 112, 169-176.	6.0	41
20	Adsorption of heavy metal from aqueous solution by dehydrated root powder of long-root <i>Eichhornia crassipes</i> . <i>International Journal of Phytoremediation</i> , 2016, 18, 103-109.	3.1	39
21	Magnetically recoverable cross-linked polyethylenimine as a novel adsorbent for removal of anionic dyes with different structures from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 191-201.	5.3	38
22	Levels, trends and risk assessment of arsenic pollution in Yangzonghai Lake, Yunnan Province, China. <i>Science China Chemistry</i> , 2010, 53, 1809-1817.	8.2	37
23	Combinatorial anti-proliferative effects of tamoxifen and naringenin: The role of four estrogen receptor subtypes. <i>Toxicology</i> , 2018, 410, 231-246.	4.2	34
24	Modified humic acids mediate efficient mineralization in a photo-bio-electro-Fenton process. <i>Water Research</i> , 2021, 190, 116740.	11.3	34
25	Dissolved organic matter as a terminal electron acceptor in the microbial oxidation of steroid estrogen. <i>Environmental Pollution</i> , 2016, 218, 26-33.	7.5	32
26	Effects of pH and dissolved oxygen on the photodegradation of 17 α -ethynylestradiol in dissolved humic acid solution. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 78-86.	3.5	29
27	Photoelectrocatalytic simultaneous removal of 17 α -ethynylestradiol and <i>E. coli</i> using the anode of Ag and SnO ₂ -Sb 3D-loaded TiO ₂ nanotube arrays. <i>Journal of Hazardous Materials</i> , 2020, 398, 122805.	12.4	27
28	Coupling electrochemical and biological methods for 17 α -ethynylestradiol removal from water by different microorganisms. <i>Journal of Hazardous Materials</i> , 2017, 340, 120-129.	12.4	25
29	The Functional Mechanisms and Application of Electron Shuttles in Extracellular Electron Transfer. <i>Current Microbiology</i> , 2018, 75, 99-106.	2.2	24
30	Simultaneous Derivatization of Hydroxyl and Ketone Groups for the Analysis of Steroid Hormones by GC-MS. <i>Chromatographia</i> , 2010, 72, 949-956.	1.3	23
31	Photobleaching alters the photochemical and biological reactivity of humic acid towards 17 α -ethynylestradiol. <i>Environmental Pollution</i> , 2017, 220, 1386-1393.	7.5	22
32	The microbial transformation of 17 β -estradiol in an anaerobic aqueous environment is mediated by changes in the biological properties of natural dissolved organic matter. <i>Science of the Total Environment</i> , 2018, 631-632, 641-648.	8.0	22
33	Ferrocene oxide loaded humic acid doped anode accelerate electron transfer process in anodic chamber of bioelectrochemical system. <i>Journal of Electroanalytical Chemistry</i> , 2019, 851, 113464.	3.8	21
34	Polycyclic Aromatic Hydrocarbons in Surface Soils of Kunming, China: Concentrations, Distribution, Sources, and Potential Risk. <i>Soil and Sediment Contamination</i> , 2013, 22, 753-766.	1.9	20
35	Photoelectrocatalytic coupling system synergistically removal of antibiotics and antibiotic resistant bacteria from aquatic environment. <i>Journal of Hazardous Materials</i> , 2022, 424, 127553.	12.4	20
36	Analysis of Six Phenolic Endocrine Disrupting Chemicals in Surface Water and Sediment. <i>Chromatographia</i> , 2011, 74, 297-306.	1.3	18

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37	Removal of toxic metals from aqueous solution by biochars derived from long-root <i>Eichhornia crassipes</i> . Royal Society Open Science, 2018, 5, 180966.	2.4	18
38	The modulatory role of low concentrations of bisphenol A on tamoxifen-induced proliferation and apoptosis in breast cancer cells. Environmental Science and Pollution Research, 2019, 26, 2353-2362.	5.3	18
39	Double-dose responses of <i>Scenedesmus capricornus</i> microalgae exposed to humic acid. Science of the Total Environment, 2022, 806, 150547.	8.0	18
40	Enhanced biotic and abiotic transformation of Cr(VI) by quinone-reducing bacteria/dissolved organic matter/Fe(III) in anaerobic environment. Environmental Sciences: Processes and Impacts, 2016, 18, 1185-1192.	3.5	17
41	Research progress on the reproductive and non-reproductive endocrine tumors by estrogen-related receptors. Journal of Steroid Biochemistry and Molecular Biology, 2016, 158, 22-30.	2.5	17
42	Photocatalytic degradation of dye by Ag/TiO ₂ nanoparticles prepared with different sol-gel crystallization in the presence of effluent organic matter. Environmental Science and Pollution Research, 2019, 26, 35900-35912.	5.3	17
43	Determination of four phenolic endocrine disrupting chemicals in Dianchi Lake, China. International Journal of Environmental Analytical Chemistry, 2012, 92, 1532-1545.	3.3	16
44	Adsorption and photochemical capacity on 17 β -ethinylestradiol by char produced in the thermo treatment process of plastic waste. Journal of Hazardous Materials, 2022, 423, 127066.	12.4	16
45	Stimulated dissolved organic matter by electrochemical route to produce activity substances for removing of 17 β -ethinylestradiol. Journal of Electroanalytical Chemistry, 2016, 780, 233-240.	3.8	15
46	The estrogenic proliferative effects of two alkylphenols and a preliminary mechanism exploration in MCF7 breast cancer cells. Environmental Toxicology, 2020, 35, 628-638.	4.0	15
47	An improved method for simultaneous analysis of steroid and phenolic endocrine disrupting chemicals in biological samples. International Journal of Environmental Analytical Chemistry, 2012, 92, 1135-1149.	3.3	14
48	Microbially reduced humic acid promotes the anaerobic photodegradation of 17 β -ethinylestradiol. Ecotoxicology and Environmental Safety, 2019, 171, 313-320.	6.0	14
49	Quercetin exerts bidirectional regulation effects on the efficacy of tamoxifen in estrogen receptor α -positive breast cancer therapy: An in vitro study. Environmental Toxicology, 2020, 35, 1179-1193.	4.0	14
50	Toxic metal contamination and distribution in soils and plants of a typical metallurgical industrial area in southwest of China. Environmental Earth Sciences, 2014, 72, 2101-2109.	2.7	13
51	The removal of lead ions of the aqueous solution by calcite with cotton morphology. Journal of Materials Science, 2014, 49, 5334-5344.	3.7	13
52	Adsorptive removal of PPCPs by biomorphic HAP templated from cotton. Water Science and Technology, 2016, 74, 276-286.	2.5	12
53	Optical characteristics and cytotoxicity of dissolved organic matter in the effluent and sludge from typical sewage treatment processes. Science of the Total Environment, 2020, 725, 138381.	8.0	12
54	Role of ER β in breast cancer by typical xenoestrogens. Tumor Biology, 2015, 36, 7355-7364.	1.8	11

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55	Dissolved organic matter mediates in the anaerobic degradation of 17 β -ethinylestradiol in a coupled electrochemical and biological system. <i>Bioresource Technology</i> , 2019, 292, 121924.	9.6	11
56	Intermittent light and microbial action of mixed endogenous source DOM affects degradation of 17 β -estradiol day after day in a relatively deep natural anaerobic aqueous environment. <i>Journal of Hazardous Materials</i> , 2019, 369, 40-49.	12.4	11
57	Evolution of enzyme activity, heavy metals bioavailability and microbial community in different temperature stages of the co-bioevaporation process. <i>Waste Management</i> , 2020, 102, 751-762.	7.4	11
58	The distribution and risk of microplastics discharged from sewage treatment plants in terrestrial and aquatic compartment. <i>Journal of Environmental Management</i> , 2022, 314, 115067.	7.8	11
59	Photosensitive cellular polymeric substances accelerate 17 β -ethinylestradiol photodegradation. <i>Chemical Engineering Journal</i> , 2020, 381, 122737.	12.7	10
60	The treatment of black-odorous water using tower bipolar electro-flocculation including the removal of phosphorus, turbidity, sulfion, and oxygen enrichment. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	10
61	Simultaneous changes of exogenous dissolved organic matter treated by ozonation in properties and interaction behavior with sulfonamides. <i>Environmental Pollution</i> , 2021, 275, 116546.	7.5	10
62	Low concentrations of 17 β -estradiol exacerbate tamoxifen resistance in breast cancer treatment through membrane estrogen receptor-mediated signaling pathways. <i>Environmental Toxicology</i> , 2022, 37, 514-526.	4.0	10
63	Dissolved oxygen inhibits the promotion of chlorothalonil photodegradation mediated by humic acid. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 360, 289-297.	3.9	9
64	Characteristics and Bioaccumulation of Progestogens, Androgens, Estrogens, and Phenols in Erhai Lake Catchment, Yunnan, China. <i>Environmental Engineering Science</i> , 2017, 34, 321-332.	1.6	8
65	17 β -Estradiol inhibits testosterone-induced cell proliferation in HepG2 by modulating the relative ratios of 3 estrogen receptor isoforms to the androgen receptor. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 8659-8671.	2.6	8
66	New Discoveries of Heating Effect on Trimethylsilyl Derivatization for Simultaneous Determination of Steroid Endocrine Disrupting Chemicals by GC-MS. <i>Chromatographia</i> , 2010, 71, 149-153.	1.3	7
67	17 β -estradiol at low concentrations attenuates the efficacy of tamoxifen in breast cancer therapy. <i>Environmental Pollution</i> , 2019, 255, 113228.	7.5	7
68	Spontaneous changes in dissolved organic matter affect the bio-removal of steroid estrogens. <i>Science of the Total Environment</i> , 2019, 689, 616-624.	8.0	6
69	Dissolved organic matter modified magnetic carbon nanotubes enhance the bioremediation of azo dyes and Cr(vi). <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1804-1815.	2.4	6
70	Spatial dynamics of biochemical fractions degradation, functional enzymatic activity and bacterial community within co-bioevaporation pile. <i>Journal of Cleaner Production</i> , 2021, 287, 125552.	9.3	6
71	The photodegradation of 17 alpha-ethinylestradiol in water containing iron and dissolved organic matter. <i>Science of the Total Environment</i> , 2022, 814, 152516.	8.0	6
72	Kinetic characteristics of lightweight aggregates obtained from dredged sediment. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 1201-1209.	3.6	4

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73	Temperature models for quantifying groundwater seepage flux applied in a deep lake of a plateau: Yangzonghai Lake, Yunnan, China. <i>Chemosphere</i> , 2020, 238, 124674.	8.2	3
74	Evaporation efficiency and important microorganisms under different ventilation strategies of co-bioevaporation process. <i>Environmental Technology and Innovation</i> , 2021, 21, 101374.	6.1	3
75	Organic loading on biochemical fractions degradation pattern during food waste bioevaporation. <i>Waste Management</i> , 2021, 132, 142-150.	7.4	3
76	Ventilation induced evolution pattern of archaea, fungi, bacteria and their potential roles during co-bioevaporation treatment of concentrated landfill leachate and food waste. <i>Chemosphere</i> , 2022, 289, 133122.	8.2	3
77	Method Development and Application for Analysis of Heavy Metals in Soils by Microwave-assisted Digestion and Extraction. , 2012, , .		2
78	The characteristics of phosphorus pollution in water-sediment interface from Dianchi Lake, China. , 2011, , .		1
79	An Improved Method for the Derivatization of Phenolic Endocrine Disrupting Chemicals. , 2012, , .		0
80	Nitrogen and Phosphorus Status in Water and Pore Water of Surface Sediment in Dianchi Lake Dredging Areas, China. , 2012, , .		0
81	Vertical Profiles of Various Nitrogen Forms in Sediments of Dianchi Lake, China. , 2012, , .		0