

Bin Yang

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,567
citations

159585

30
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

3986
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence and fate of eleven classes of antibiotics in two typical wastewater treatment plants in South China. <i>Science of the Total Environment</i> , 2013, 452-453, 365-376.	8.0	385
2	Trends in the occurrence of human and veterinary antibiotics in the sediments of the Yellow River, Hai River and Liao River in northern China. <i>Environmental Pollution</i> , 2011, 159, 1877-1885.	7.5	379
3	Trace analysis of 28 steroids in surface water, wastewater and sludge samples by rapid resolution liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 1367-1378.	3.7	281
4	Removal of selected endocrine disrupting chemicals (EDCs) and pharmaceuticals and personal care products (PPCPs) during ferrate(VI) treatment of secondary wastewater effluents. <i>Water Research</i> , 2012, 46, 2194-2204.	11.3	227
5	Evaluation of triclosan and triclocarban at river basin scale using monitoring and modeling tools: Implications for controlling of urban domestic sewage discharge. <i>Water Research</i> , 2013, 47, 395-405.	11.3	171
6	Biotransformation of progesterone and norgestrel by two freshwater microalgae (<i>Scenedesmus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 <i>Chemosphere</i> , 2014, 95, 581-588.	8.2	165
7	Assessing estrogenic activity in surface water and sediment of the Liao River system in northeast China using combined chemical and biological tools. <i>Environmental Pollution</i> , 2011, 159, 148-156.	7.5	146
8	Rapid modification of montmorillonite with novel cationic Gemini surfactants and its adsorption for methyl orange. <i>Materials Chemistry and Physics</i> , 2011, 130, 1220-1226.	4.0	117
9	Occurrence and fate of androgens, estrogens, glucocorticoids and progestagens in two different types of municipal wastewater treatment plants. <i>Journal of Environmental Monitoring</i> , 2012, 14, 482-491.	2.1	107
10	Estrogenic activity profiles and risks in surface waters and sediments of the Pearl River system in South China assessed by chemical analysis and in vitro bioassay. <i>Journal of Environmental Monitoring</i> , 2011, 13, 813-821.	2.1	94
11	Oxidation of triclosan by ferrate: Reaction kinetics, products identification and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2011, 186, 227-235.	12.4	93
12	Oxidation of benzophenone-3 during water treatment with ferrate(VI). <i>Water Research</i> , 2013, 47, 2458-2466.	11.3	88
13	Removal of carbamazepine in aqueous solutions through solar photolysis of free available chlorine. <i>Water Research</i> , 2016, 100, 413-420.	11.3	86
14	Ferrate(VI) oxidation of tetrabromobisphenol A in comparison with bisphenol A. <i>Water Research</i> , 2014, 62, 211-219.	11.3	78
15	Oxidation of ciprofloxacin and enrofloxacin by ferrate(VI): Products identification, and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2016, 320, 296-303.	12.4	75
16	Cellular responses and bioremoval of nonylphenol and octylphenol in the freshwater green microalga <i>Scenedesmus obliquus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2013, 87, 10-16.	6.0	69
17	Occurrence, mass loads and risks of bisphenol analogues in the Pearl River Delta region, South China: Urban rainfall runoff as a potential source for receiving rivers. <i>Environmental Pollution</i> , 2020, 263, 114361.	7.5	65
18	Biotransformation of the flame retardant tetrabromobisphenol A (TBBPA) by freshwater microalgae. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 1705-1711.	4.3	62

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19	Screening of multiple hormonal activities in surface water and sediment from the Pearl River system, South China, using effect-directed in vitro bioassays. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 2208-2215.	4.3	59
20	Highly enhanced biodegradation of pharmaceutical and personal care products in a novel tidal flow constructed wetland with baffle and plants. <i>Water Research</i> , 2021, 193, 116870.	11.3	51
21	Photodegradation of the azole fungicide fluconazole in aqueous solution under UV-254: Kinetics, mechanistic investigations and toxicity evaluation. <i>Water Research</i> , 2014, 52, 83-91.	11.3	50
22	Hydrolytic transformation mechanism of tetracycline antibiotics: Reaction kinetics, products identification and determination in WWTPs. <i>Ecotoxicology and Environmental Safety</i> , 2022, 229, 113063.	6.0	50
23	Kinetics modeling and reaction mechanism of ferrate(VI) oxidation of benzotriazoles. <i>Water Research</i> , 2011, 45, 2261-2269.	11.3	49
24	Microwave-assisted modification on montmorillonite with ester-containing Gemini surfactant and its adsorption behavior for triclosan. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 311-316.	9.4	48
25	Use patterns, excretion masses and contamination profiles of antibiotics in a typical swine farm, south China. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 802.	3.5	46
26	Degradation of climbazole by UV/chlorine process: Kinetics, transformation pathway and toxicity evaluation. <i>Chemosphere</i> , 2019, 219, 243-249.	8.2	44
27	Kinetics and mechanism of reactive radical mediated fluconazole degradation by the UV/chlorine process: Experimental and theoretical studies. <i>Chemical Engineering Journal</i> , 2020, 402, 126224.	12.7	44
28	Assessment of hormonal activities and genotoxicity of industrial effluents using in vitro bioassays combined with chemical analysis. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 1273-1282.	4.3	34
29	Effects of acute and chronic exposures of fluoxetine on the Chinese fish, topmouth gudgeon <i>Pseudorasbora parva</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 160, 104-113.	6.0	32
30	Use of TIE techniques to characterize industrial effluents in the Pearl River Delta region. <i>Ecotoxicology and Environmental Safety</i> , 2012, 76, 143-152.	6.0	31
31	Biodegradation of typical azole fungicides in activated sludge under aerobic conditions. <i>Journal of Environmental Sciences</i> , 2021, 103, 288-297.	6.1	27
32	Performance and mechanism in degradation of typical antibiotics and antibiotic resistance genes by magnetic resin-mediated UV-Fenton process. <i>Ecotoxicology and Environmental Safety</i> , 2021, 227, 112908.	6.0	26
33	The role of chlorine oxide radical (ClO [•]) in the degradation of polychloro-1,3-butadienes in UV/chlorine treatment: kinetics and mechanisms. <i>Water Research</i> , 2020, 183, 116056.	11.3	25
34	Accelerated degradation of sulfadiazine by nitrogen-doped magnetic biochar-activated persulfate: Role of oxygen vacancy. <i>Separation and Purification Technology</i> , 2022, 289, 120735.	7.9	25
35	Occurrence, fate and mass loading of benzodiazepines and their transformation products in eleven wastewater treatment plants in Guangdong province, China. <i>Science of the Total Environment</i> , 2021, 755, 142648.	8.0	23
36	Suspect, non-target and target screening of pharmaceuticals and personal care products (PPCPs) in a drinking water system. <i>Science of the Total Environment</i> , 2022, 808, 151866.	8.0	22

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37	Aqueous chlorination of benzodiazepines diazepam and oxazepam: Kinetics, transformation products and reaction pathways. <i>Chemical Engineering Journal</i> , 2018, 354, 1100-1109.	12.7	21
38	Mechanistic insight into the generation of high-valent iron-oxo species via peroxymonosulfate activation: An experimental and density functional theory study. <i>Chemical Engineering Journal</i> , 2021, 420, 130477.	12.7	21
39	Microwave-Assisted Synthesis of Quaternized Carboxymethyl Chitosan in Aqueous Solution and its Thermal Behavior. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 227-234.	2.2	20
40	Hormonal effects of tetrabromobisphenol A using a combination of in vitro and in vivo assays. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2013, 157, 344-351.	2.6	20
41	Activation of peroxymonosulfate by molybdenum disulfide-mediated traces of Fe(III) for sulfadiazine degradation. <i>Chemosphere</i> , 2021, 283, 131212.	8.2	19
42	Microwave Irradiation Assisted Synthesis and Flocculation Behavior of Quaternized Chitosan/Organo Montmorillonite Nanocomposite. <i>Current Nanoscience</i> , 2011, 7, 1034-1041.	1.2	17
43	Transformation of diazepam in water during UV/chlorine and simulated sunlight/chlorine advanced oxidation processes. <i>Science of the Total Environment</i> , 2020, 746, 141332.	8.0	14
44	Enhanced Photo-Fenton Removal Efficiency with Core-Shell Magnetic Resin Catalyst for Textile Dyeing Wastewater Treatment. <i>Water (Switzerland)</i> , 2021, 13, 968.	2.7	13
45	Transformation products of tetracyclines in three typical municipal wastewater treatment plants. <i>Science of the Total Environment</i> , 2022, 830, 154647.	8.0	12
46	Removal of Sulfadiazine Using 3D Interconnected Petal-Like Magnetic Reduced Graphene Oxide (MrGO) Nanocomposites. <i>Water (Switzerland)</i> , 2020, 12, 1933.	2.7	10
47	Kinetics and Mechanism of Degradation of Reactive Radical-Mediated Probe Compounds by the UV/Chlorine Process: Theoretical Calculation and Experimental Verification. <i>ACS Omega</i> , 2022, 7, 5053-5063.	3.5	8
48	Activation of dissolved molecular oxygen by ascorbic acid-mediated circulation of copper(II): Applications and limitations. <i>Separation and Purification Technology</i> , 2021, 275, 119186.	7.9	7
49	The role of the freshwater oligochaete <i>Limnodrilus hoffmeisteri</i> in the distribution of Se in a water/sediment microcosm. <i>Science of the Total Environment</i> , 2019, 687, 1098-1106.	8.0	5
50	Removal of Personal Care Products Through Ferrate(VI) Oxidation Treatment. <i>Handbook of Environmental Chemistry</i> , 2014, , 355-373.	0.4	3
51	Acceleration of traces of Fe ³⁺ -activated peroxymonosulfate by natural pyrite: A novel cocatalyst for improving Fenton-like processes. <i>Chemical Engineering Journal</i> , 2022, 435, 134893.	12.7	2
52	Degradation of 17 Benzodiazepines by the UV/H ₂ O ₂ Treatment. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	1