Pengchao Xie

List of Publications by Citations

44 papers	2,651 citations	25 h-index	45 g-index
45 ext. papers	3,480 ext. citations	10.4 avg, IF	5.45 L-index

#	Paper	IF	Citations
44	Rapid acceleration of ferrous iron/peroxymonosulfate oxidation of organic pollutants by promoting Fe(III)/Fe(II) cycle with hydroxylamine. *Environmental Science & Technology*, **2013**, 47, 11685-91	10.3	465
43	Removal of 2-MIB and geosmin using UV/persulfate: contributions of hydroxyl and sulfate radicals. *Water Research*, **2015**, 69, 223-233	12.5	350
42	Strong enhancement on fenton oxidation by addition of hydroxylamine to accelerate the ferric and ferrous iron cycles. *Environmental Science & Technology*, **2011**, 45, 3925-30	10.3	295
41	Comparison of permanganate preoxidation and preozonation on algae containing water: cell integrity, characteristics, and chlorinated disinfection byproduct formation. *Environmental Science & Technology*, **2013**, 47, 14051-61	10.3	170
40	Removal of acetaminophen in the Fe2+/persulfate system: Kinetic model and degradation pathways. *Chemical Engineering Journal*, **2019**, 358, 1091-1100	14.7	110
39	Heat-activated persulfate oxidation of methyl- and ethyl-parabens: Effect, kinetics, and mechanism. *Chemosphere*, **2017**, 168, 1628-1636	8.4	96
38	Application of a novel advanced oxidation process using sulfite and zero-valent iron in treatment of organic pollutants. *Chemical Engineering Journal*, **2017**, 314, 240-248	14.7	86
37	Removal of Microcystis aeruginosa by UV-activated persulfate: Performance and characteristics. *Chemical Engineering Journal*, **2016**, 300, 245-253	14.7	83
36	Application of Cobalt/Peracetic Acid to Degrade Sulfamethoxazole at Neutral Condition: Efficiency and Mechanisms. *Environmental Science & Technology*, **2020**, 54, 464-475	10.3	78
35	A mini review of preoxidation to improve coagulation. *Chemosphere*, **2016**, 155, 550-563	8.4	73
34	Impact of UV/persulfate pretreatment on the formation of disinfection byproducts during subsequent chlorination of natural organic matter. *Chemical Engineering Journal*, **2015**, 269, 203-211	14.7	72
33	Enhanced degradation of organic contaminants by zero-valent iron/sulfite process under simulated sunlight irradiation. *Water Research*, **2019**, 149, 169-178	12.5	72
32	Degradation of organic pollutants by Vacuum-Ultraviolet (VUV): Kinetic model and efficiency. *Water Research*, **2018**, 133, 69-78	12.5	61
31	Comparative study on the pretreatment of algae-laden water by UV/persulfate, UV/chlorine, and UV/HO: Variation of characteristics and alleviation of ultrafiltration membrane fouling. *Water Research*, **2019**, 158, 213-226	12.5	57
30	Improved sulfamethoxazole degradation by the addition of MoS2 into the Fe2+/peroxymonosulfate process. *Separation and Purification Technology*, **2020**, 235, 116170	8.3	52
29	Thermal Activation of Peracetic Acid in Aquatic Solution: The Mechanism and Application to Degrade Sulfamethoxazole. *Environmental Science & Technology*, **2020**, 54, 14635-14645	10.3	52
28	UV/persulfate preoxidation to improve coagulation efficiency of Microcystis aeruginosa. *Journal of Hazardous Materials*, **2017**, 322, 508-515	12.8	46

27	Applying a novel advanced oxidation process of activated peracetic acid by CoFe2O4 to efficiently degrade sulfamethoxazole. *Applied Catalysis B: Environmental*, **2021**, 280, 119422	21.8	44
26	Efficient degradation of imipramine by iron oxychloride-activated peroxymonosulfate process. *Journal of Hazardous Materials*, **2018**, 353, 18-25	12.8	42
25	Ultraviolet/persulfate (UV/PS) pretreatment of typical natural organic matter (NOM): Variation of characteristics and control of membrane fouling. *Chemosphere*, **2019**, 214, 136-147	8.4	34
24	Phosphorus recovery from water by lanthanum hydroxide embedded interpenetrating network poly (vinyl alcohol)/sodium alginate hydrogel beads. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 554, 237-244	5.1	32
23	Rapid spectrophotometric determination of peroxymonosulfate in water with cobalt-mediated oxidation decolorization of methyl orange. *Chemical Engineering Journal*, **2014**, 253, 34-39	14.7	30
22	Comparative adsorption of emerging contaminants in water by functional designed magnetic poly(N-isopropylacrylamide)/chitosan hydrogels. *Science of the Total Environment*, **2019**, 671, 377-387	10.2	29
21	Chemical cleaning of algae-fouled ultrafiltration (UF) membrane by sodium hypochlorite (NaClO): Characterization of membrane and formation of halogenated by-products. *Journal of Membrane Science*, **2020**, 598, 117662	9.6	27
20	Improved chlorine tolerance of a polyvinyl pyrrolidone-polysulfone membrane enabled by carboxylated carbon nanotubes. *Water Research*, **2016**, 104, 497-506	12.5	25
19	Formation of halogenated by-products during chemical cleaning of humic acid-fouled UF membrane by sodium hypochlorite solution. *Chemical Engineering Journal*, **2018**, 332, 76-84	14.7	22
18	Molybdenum disulfide (MoS): A novel activator of peracetic acid for the degradation of sulfonamide antibiotics. *Water Research*, **2021**, 201, 117291	12.5	17
17	Degradation of imipramine by vacuum ultraviolet (VUV) system: Influencing parameters, mechanisms, and variation of acute toxicity. *Chemosphere*, **2019**, 233, 282-291	8.4	16
16	UV-assisted chlorination of algae-laden water: Cell lysis and disinfection byproducts formation. *Chemical Engineering Journal*, **2020**, 383, 123165	14.7	16
15	Chlorination of polyvinyl pyrrolidone/polysulfone membranes: Organic compound release, byproduct formation, and changes in membrane properties. *Journal of Membrane Science*, **2015**, 489, 28-35	9.6	15
14	Magnetic amino-functionalized lanthanum metal-organic framework for selective phosphate removal from water. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 611, 125906	5.1	15
13	Fabrication of a Z-scheme nanocomposite photocatalyst for enhanced photocatalytic degradation of ibuprofen under visible light irradiation. *Separation and Purification Technology*, **2020**, 250, 117241	8.3	13
12	Transformation of acetaminophen in solution containing both peroxymonosulfate and chlorine: Performance, mechanism, and disinfection by-product formation. *Water Research*, **2021**, 189, 116605	12.5	13
11	Application of UV/chlorine pretreatment for controlling ultrafiltration (UF) membrane fouling caused by different natural organic fractions. *Chemosphere*, **2021**, 263, 127993	8.4	11
10	Fabrication of hydrophobic/hydrophilic bifunctional adsorbent for the removal of sulfamethoxazole and bisphenol A in Water. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104161	6.8	10

9	Transformation of tetrabromobisphenol a in the iron ions-catalyzed auto-oxidation of HSO32/SO32 process. *Separation and Purification Technology*, **2020**, 235, 116197	8.3	7
8	Application of vacuum-ultraviolet (VUV) to degrade blocker propranolol in aquatic environment: Efficiency, kinetics, pathways and acute toxicity. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 103, 75-84	5.3	4
7	Lanthanum molybdate/magnetite for selective phosphate removal from wastewater: characterization, performance, and sorption mechanisms. *Environmental Science and Pollution Research*, **2021**, 28, 4342-4351	5.1	4
6	Enhanced degradation of tetrabromobisphenol A by Fe/sulfite process under simulated sunlight irradiation. *Chemosphere*, **2021**, 285, 131442	8.4	3
5	Molybdenum disulfide (MoS2) promoted sulfamethoxazole degradation in the Fe(III)/peracetic acid process. *Separation and Purification Technology*, **2022**, 281, 119854	8.3	2
4	Inactivation of Microcystis Aeruginosa by peracetic acid combined with ultraviolet: Performance and characteristics. *Water Research*, **2022**, 208, 117847	12.5	1
3	Sulfite activation using FeO as a source of ferrous ions for fluoxetine degradation: A collaborated experimental and DFT study. *Chemical Engineering Journal*, **2022**, 441, 135960	14.7	1
2	Simultaneous Removal of and 2,4,6-Trichlorophenol by UV/Persulfate Process. *Frontiers in Chemistry*, **2020**, 8, 591641	5	0
1	A Novel Model of Pressure Decay in Pressure-Driven Membrane Integrity Tests Based on the Bubble Dynamic Process. *Applied Sciences (Switzerland)*, **2019**, 9, 273	2.6	