Zhaokun Xiong

List of Publications by Year
in descending order

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46 papers	3,680 citations	147801 31 h-index	223800 46 g-index
46 all docs	46 docs citations	46 times ranked	2238 citing authors

#	Article	IF	Citations
1	Effective E. coli inactivation of core-shell ZnO@ZIF-8 photocatalysis under visible light synergize with peroxymonosulfate: Efficiency and mechanism. Chinese Chemical Letters, 2022, 33, 415-423.	9.0	59
2	Highly efficient degradation of emerging contaminants by magnetic CuO@FexOy derived from natural mackinawite (FeS) in the presence of peroxymonosulfate. Chinese Chemical Letters, 2022, 33, 948-952.	9.0	38
3	Ultrafast degradation of contaminants in a trace cobalt(II) activated peroxymonosulfate process triggered through borate: Indispensable role of intermediate complex. Journal of Hazardous Materials, 2022, 424, 127641.	12.4	54
4	Enhanced degradation of carbamazepine by iron/S(IV) system using a novel S(IV) source. Chemical Engineering Journal, 2022, 431, 133464.	12.7	1
5	Degradation of atrazine in water by Bi2MoO6 and visible light activated Fe3+/peroxymonosulfate coupling system. Journal of Hazardous Materials, 2022, 425, 127781.	12.4	21
6	Marriage of membrane filtration and sulfate radical-advanced oxidation processes (SR-AOPs) for water purification: Current developments, challenges and prospects. Chemical Engineering Journal, 2022, 433, 133802.	12.7	39
7	Nitrogen-doped carbon nanotubes enhanced Fenton chemistry: Role of near-free iron(III) for sustainable iron(III)/iron(II) cycles. Water Research, 2022, 210, 117984.	11.3	63
8	Pivotal roles of N-doped carbon shell and hollow structure in nanoreactor with spatial confined Co species in peroxymonosulfate activation: Obstructing metal leaching and enhancing catalytic stability. Journal of Hazardous Materials, 2022, 427, 128204.	12.4	74
9	Reducing agents enhanced Fenton-like oxidation (Fe(III)/Peroxydisulfate): Substrate specific reactivity of reactive oxygen species. Water Research, 2022, 218, 118412.	11.3	55
10	Efficient activation of ferrate(VI) by colloid manganese dioxide: Comprehensive elucidation of the surface-promoted mechanism. Water Research, 2022, 215, 118243.	11.3	46
11	Graphite (GP) induced activation of ferrate(VI) for degradation of micropollutants: The crucial reduction role of carbonyl groups on GP surface. Journal of Hazardous Materials, 2022, 434, 128827.	12.4	16
12	Fast photo-Fenton-like oxidation in bismuth catalysis: A novel Fe(III) self-doped sodium bismuthate nanosheet. Journal of Hazardous Materials, 2022, 435, 128975.	12.4	16
13	Iron active sites encapsulated in N-doped graphite for efficiently selective degradation of emerging contaminants via peroxymonosulfate (PMS) activation: Inherent roles of adsorption and electron-transfer dominated nonradical mechanisms. Chemical Engineering Journal, 2022, 444, 136623.	12.7	53
14	Lithium cobalt oxide with excellent electron mobility: An efficient activator of peroxymonosulfate for the degradation of sulfamethoxazole. Chemical Engineering Journal, 2022, 445, 136702.	12.7	6
15	Selective degradation of sulfamethoxazole by N-doped iron-based carbon activated peroxymonosulfate: Collaboration of singlet oxygen and high-valent iron-oxo species. Separation and Purification Technology, 2022, 297, 121379.	7.9	25
16	Sustainable Fe(III)/Fe(II) cycles triggered by co-catalyst of weak electrical current in Fe(III)/peroxymonosulfate system: Collaboration of radical and non-radical mechanisms. Applied Catalysis B: Environmental, 2022, 317, 121716.	20.2	91
17	Synthesis strategies and emerging mechanisms of metal-organic frameworks for sulfate radical-based advanced oxidation process: A review. Chemical Engineering Journal, 2021, 421, 127863.	12.7	129
18	Simultaneously enhanced degradation of N, N-dimethylacetamide and reduced formation of iron sludge by an efficient electrolysis catalyzed ozone process in the presence of dissolved silicate. Journal of Hazardous Materials, 2021, 406, 124725.	12.4	22

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19	Recent advances in single-atom catalysts for advanced oxidation processes in water purification. Journal of Hazardous Materials, 2021, 412, 125253.	12.4	113
20	N-doped graphite encapsulated metal nanoparticles catalyst for removal of Bisphenol A via activation of peroxymonosulfate: A singlet oxygen-dominated oxidation process. Chemical Engineering Journal, 2021, 415, 128890.	12.7	108
21	Efficient degradation of carbamazepine by electro-Fenton system without any extra oxidant in the presence of molybdate: The role of slow release of iron ions. Applied Catalysis B: Environmental, 2021, 298, 120506.	20.2	50
22	Catalytic ozonation of penicillin G using cerium-loaded natural zeolite (CZ): Efficacy, mechanisms, pathways and toxicity assessment. Chemical Engineering Journal, 2020, 383, 123144.	12.7	56
23	C60 Fullerol promoted Fe(III)/H2O2 Fenton oxidation: Role of photosensitive Fe(III)-Fullerol complex. Applied Catalysis B: Environmental, 2020, 265, 118264.	20.2	79
24	Peroxymonosulfate activation on FeCo2S4 modified g-C3N4 (FeCo2S4-CN): Mechanism of singlet oxygen evolution for nonradical efficient degradation of sulfamethoxazole. Chemical Engineering Journal, 2020, 384, 123361.	12.7	273
25	Heterogeneous activation of peroxymonosulfate by CoMgFe-LDO for degradation of carbamazepine: Efficiency, mechanism and degradation pathways. Chemical Engineering Journal, 2020, 391, 123604.	12.7	129
26	An old story with new insight into the structural transformation and radical production of micron-scale zero-valent iron on successive reactivities. Chinese Chemical Letters, 2020, 31, 2634-2640.	9.0	56
27	Efficient degradation of sulfamethoxazole by NiCo2O4 modified expanded graphite activated peroxymonosulfate: Characterization, mechanism and degradation intermediates. Journal of Hazardous Materials, 2020, 399, 123103.	12.4	86
28	Removal of antibiotic resistance genes from post-treated swine wastewater by mFe/nCu system. Chemical Engineering Journal, 2020, 400, 125953.	12.7	10
29	Activation of peroxydisulfate by natural titanomagnetite for atrazine removal via free radicals and high-valent iron-oxo species. Chemical Engineering Journal, 2020, 387, 124165.	12.7	88
30	The Influence of Cu(II) Existence State on Characteristics, Reactivity, and Recyclability of Microscale Fe/Cu Bimetal. Industrial & Engineering Chemistry Research, 2020, 59, 7310-7320.	3.7	5
31	Core-shell magnetic Fe3O4@Zn/Co-ZIFs to activate peroxymonosulfate for highly efficient degradation of carbamazepine. Applied Catalysis B: Environmental, 2020, 277, 119136.	20.2	452
32	The enhanced removal of phosphate by structural defects and competitive fluoride adsorption on cerium-based adsorbent. Chemosphere, 2020, 256, 127056.	8.2	51
33	The electrochemical advanced oxidation processes coupling of oxidants for organic pollutants degradation: A mini-review. Chinese Chemical Letters, 2019, 30, 2139-2146.	9.0	238
34	Removal of nitrophenols and their derivatives by chemical redox: A review. Chemical Engineering Journal, 2019, 359, 13-31.	12.7	270
35	Effect of initial pH on the tetracycline (TC) removal by zero-valent iron: Adsorption, oxidation and reduction. Chemical Engineering Journal, 2018, 343, 492-499.	12.7	226
36	Insight into a highly efficient electrolysis-ozone process for N,N-dimethylacetamide degradation: Quantitative analysis of the role of catalytic ozonation, fenton-like and peroxone reactions. Water Research, 2018, 140, 12-23.	11.3	84

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37	Comparative study on degradation of p -nitrophenol in aqueous solution by mFe/Cu/O 3 and mFe 0 /O 3 processes. Journal of Industrial and Engineering Chemistry, 2018, 59, 196-207.	5.8	20
38	Enhancing the efficiency of zero valent iron by electrolysis: Performance and reaction mechanism. Chemosphere, 2018, 194, 189-199.	8.2	19
39	Pretreatment of shale gas drilling flowback fluid (SGDF) by the microscale Fe0/persulfate/O3 process (mFe0/PS/O3). Chemosphere, 2017, 176, 192-201.	8.2	39
40	Enhanced reactivity of microscale Fe/Cu bimetallic particles (mFe/Cu) with persulfate (PS) for p-nitrophenol (PNP) removal in aqueous solution. Chemosphere, 2017, 172, 10-20.	8.2	98
41	Cu 2+ release and transfer in various Fe/Cu-based processes during wastewater treatment. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 669-677.	5.3	14
42	Coagulation-flocculation as pre-treatment for micro-scale Fe/Cu/O3 process (CF-mFe/Cu/O3) treatment of the coating wastewater from automobile manufacturing. Chemosphere, 2017, 166, 343-351.	8.2	17
43	Degradation of p -nitrophenol (PNP) in aqueous solution by a micro-size Fe 0 /O 3 process (mFe 0 /O 3): Optimization, kinetic, performance and mechanism. Chemical Engineering Journal, 2016, 302, 137-145.	12.7	132
44	Treatment of wastewater derived from dinitrodiazophenol (DDNP) manufacturing by the Fe/Cu/O3 process. RSC Advances, 2016, 6, 94467-94475.	3.6	15
45	Mineralization of ammunition wastewater by a micron-size Fe⁰/O₃ process (mFe⁰/O₃). RSC Advances, 2016, 6, 55726-55735.	3.6	15
46	Comparative study on the reactivity of Fe/Cu bimetallic particles and zero valent iron (ZVI) under different conditions of N2, air or without aeration. Journal of Hazardous Materials, 2015, 297, 261-268.	12.4	129