

# Ruixia Yuan

## List of Publications by Year in descending order

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52  
papers

4,044  
citations

126907

33  
h-index

175258

52  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of chloride ion on degradation of Acid Orange 7 by sulfate radical-based advanced oxidation process: Implications for formation of chlorinated aromatic compounds. <i>Journal of Hazardous Materials</i> , 2011, 196, 173-179.	12.4	502
2	Uncertainty and misinterpretation over identification, quantification and transformation of reactive species generated in catalytic oxidation processes: A review. <i>Journal of Hazardous Materials</i> , 2021, 408, 124436.	12.4	297
3	Photocatalytic degradation of tetracycline antibiotic by a novel Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> /Bi <sub>2</sub> MoO <sub>6</sub> S-scheme heterojunction: Performance, mechanism insight and toxicity assessment. <i>Chemical Engineering Journal</i> , 2022, 429, 132519.	12.7	279
4	Effects of chloride ions on bleaching of azo dyes by Co <sup>2+</sup> /oxone reagent: Kinetic analysis. <i>Journal of Hazardous Materials</i> , 2011, 190, 1083-1087.	12.4	273
5	In situ construction of WO <sub>3</sub> nanoparticles decorated Bi <sub>2</sub> MoO <sub>6</sub> microspheres for boosting photocatalytic degradation of refractory pollutants. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 335-344.	9.4	219
6	Superamphiphobic and Electroactive Nanocomposite toward Self-Cleaning, Antiwear, and Anticorrosion Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 12481-12493.	8.0	145
7	3D mesoporous $\gamma$ -Co(OH) <sub>2</sub> nanosheets electrodeposited on nickel foam: A new generation of macroscopic cobalt-based hybrid for peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2020, 380, 122447.	12.7	127
8	Photocatalytic degradation and chlorination of azo dye in saline wastewater: Kinetics and AOX formation. <i>Chemical Engineering Journal</i> , 2012, 192, 171-178.	12.7	123
9	Nanostructured Co <sub>3</sub> O <sub>4</sub> grown on nickel foam: An efficient and readily recyclable 3D catalyst for heterogeneous peroxymonosulfate activation. <i>Chemosphere</i> , 2018, 198, 204-215.	8.2	109
10	Enhanced degradation of Tetrabromobisphenol A in water by a UV/base/persulfate system: Kinetics and intermediates. <i>Chemical Engineering Journal</i> , 2014, 254, 538-544.	12.7	106
11	Non-radical reactions in persulfate-based homogeneous degradation processes: A review. <i>Chemical Engineering Journal</i> , 2021, 421, 127818.	12.7	103
12	Transformations of chloro and nitro groups during the peroxymonosulfate-based oxidation of 4-chloro-2-nitrophenol. <i>Chemosphere</i> , 2015, 134, 446-451.	8.2	100
13	Sulfate radical-induced degradation of 2,4,6-trichlorophenol: A de novo formation of chlorinated compounds. <i>Chemical Engineering Journal</i> , 2013, 217, 169-173.	12.7	97
14	Significantly enhanced base activation of peroxymonosulfate by polyphosphates: Kinetics and mechanism. <i>Chemosphere</i> , 2017, 173, 529-534.	8.2	96
15	A robust superhydrophobic PVDF composite coating with wear/corrosion-resistance properties. <i>Applied Surface Science</i> , 2015, 332, 518-524.	6.1	95
16	Hierarchical MnO <sub>2</sub> nanoflowers blooming on 3D nickel foam: A novel micro-macro catalyst for peroxymonosulfate activation. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 142-154.	9.4	94
17	Probing the radical chemistry in UV/persulfate-based saline wastewater treatment: Kinetics modeling and byproducts identification. <i>Chemosphere</i> , 2014, 109, 106-112.	8.2	91
18	Co <sub>3</sub> O <sub>4</sub> nanocrystals/3D nitrogen-doped graphene aerogel: A synergistic hybrid for peroxymonosulfate activation toward the degradation of organic pollutants. <i>Chemosphere</i> , 2018, 210, 877-888.	8.2	81

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19	Deciphering the degradation/chlorination mechanisms of maleic acid in the Fe(II)/peroxymonosulfate process: An often overlooked effect of chloride. <i>Water Research</i> , 2018, 145, 453-463.	11.3	73
20	Enhanced AOX accumulation and aquatic toxicity during 2,4,6-trichlorophenol degradation in a Co(II)/peroxymonosulfate/Cl <sup>-</sup> system. <i>Chemosphere</i> , 2016, 144, 2415-2420.	8.2	72
21	Monochlorophenols degradation by UV/persulfate is immune to the presence of chloride: Illusion or reality?. <i>Chemical Engineering Journal</i> , 2017, 323, 124-133.	12.7	65
22	Design ambient-curable superhydrophobic/electroactive coating toward durable pitting corrosion resistance. <i>Chemical Engineering Journal</i> , 2019, 374, 840-851.	12.7	63
23	Concentration profiles of chlorine radicals and their significances in •OH-induced dye degradation: Kinetic modeling and reaction pathways. <i>Chemical Engineering Journal</i> , 2012, 209, 38-45.	12.7	60
24	Superamphiphobicity and electroactivity enabled dual physical/chemical protections in novel anticorrosive nanocomposite coatings. <i>Polymer</i> , 2016, 85, 37-46.	3.8	46
25	Effects of chloride on PMS-based pollutant degradation: A substantial discrepancy between dyes and their common decomposition intermediate (phthalic acid). <i>Chemosphere</i> , 2017, 187, 338-346.	8.2	45
26	Is addition of reductive metals (Mo, W) a panacea for accelerating transition metals-mediated peroxymonosulfate activation?. <i>Journal of Hazardous Materials</i> , 2020, 386, 121877.	12.4	44
27	Light-assisted decomposition of dyes over iron-bearing soil clays in the presence of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2009, 168, 1246-1252.	12.4	41
28	Oxidative degradation of iodinated X-ray contrast media (iomeprol and iohexol) with sulfate radical: An experimental and theoretical study. <i>Chemical Engineering Journal</i> , 2019, 368, 999-1012.	12.7	41
29	Degradation of reactive dyes by contact glow discharge electrolysis in the presence of Cl <sup>-</sup> ions: Kinetics and AOX formation. <i>Electrochimica Acta</i> , 2011, 58, 364-371.	5.2	40
30	The mixed marriage of copper and carbon ring-g-C <sub>3</sub> N <sub>4</sub> nanosheet: A visible-light-driven heterogeneous Fenton-like catalyst. <i>Applied Surface Science</i> , 2019, 488, 728-738.	6.1	38
31	Photochemical origin of reactive radicals and halogenated organic substances in natural waters: A review. <i>Journal of Hazardous Materials</i> , 2021, 401, 123884.	12.4	37
32	An often-overestimated adverse effect of halides in heat/persulfate-based degradation of wastewater contaminants. <i>Environment International</i> , 2019, 130, 104918.	10.0	36
33	Enabling simultaneous redox transformation of toxic chromium(VI) and arsenic(III) in aqueous media—A review. <i>Journal of Hazardous Materials</i> , 2021, 417, 126041.	12.4	34
34	Both degradation and AOX accumulation are significantly enhanced in UV/peroxymonosulfate/4-chlorophenol/Cl <sup>-</sup> system: two sides of the same coin?. <i>RSC Advances</i> , 2017, 7, 12318-12321.	3.6	33
35	Superhydrophobic polyaniline hollow spheres with mesoporous brain-like convex-fold shell textures. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19299-19303.	10.3	28
36	On peroxymonosulfate-based treatment of saline wastewater: when phosphate and chloride co-exist. <i>RSC Advances</i> , 2018, 8, 13865-13870.	3.6	26

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37	Enhancement of adhesion, mechanical strength and anti-corrosion by multilayer superhydrophobic coating embedded electroactive PANI/CNF nanocomposite. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	26
38	Transformation of endogenic and exogenic Cl/Br in peroxymonosulfate-based processes: The importance of position of Cl/Br attached to the phenolic ring. <i>Chemical Engineering Journal</i> , 2020, 381, 122634.	12.7	26
39	Chlorine incorporation into dye degradation by-product (coumarin) in UV/peroxymonosulfate process: A negative case of end-of-pipe treatment. <i>Chemosphere</i> , 2019, 229, 374-382.	8.2	25
40	Accelerated oxidation of 2,4,6-trichlorophenol in Cu(II)/H <sub>2</sub> O <sub>2</sub> /Cl <sup>-</sup> system: A unique "halotolerant" Fenton-like process?. <i>Environment International</i> , 2019, 132, 105128.	10.0	22
41	Abiotic oxidation of arsenite in natural and engineered systems: Mechanisms and related controversies over the last two decades (1999–2020). <i>Journal of Hazardous Materials</i> , 2021, 414, 125488.	12.4	22
42	Resistance of alkyl chloride on chloramphenicol to oxidative degradation by sulfate radicals: Kinetics and mechanism. <i>Chemical Engineering Journal</i> , 2021, 415, 129041.	12.7	21
43	Facile fabrication approach for a novel multifunctional superamphiphobic coating based on chemically grafted montmorillonite/Al <sub>2</sub> O <sub>3</sub> -polydimethylsiloxane binary nanocomposite. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	19
44	Efficient degradation of industrial pollutants with sulfur (IV) mediated by LiCoO <sub>2</sub> cathode powders of spent lithium ion batteries: A "treating waste with waste" strategy. <i>Journal of Hazardous Materials</i> , 2020, 399, 123090.	12.4	19
45	Ultrahigh-flux (>190,000 L·m <sup>-2</sup> ·h <sup>-1</sup> ) separation of oil and water by a robust and durable Cu(OH) <sub>2</sub> nanoneedles mesh with inverse wettability. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 569-582.	9.4	18
46	Effects of exogenic chloride on oxidative degradation of chlorinated azo dye by UV-activated peroxydisulfate. <i>Chinese Chemical Letters</i> , 2021, 32, 2544-2550.	9.0	18
47	Performance of UV/acetylacetone process for saline dye wastewater treatment: Kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 406, 124774.	12.4	17
48	Trace bromide ion impurity leads to formation of chlorobromoaromatic by-products in peroxymonosulfate-based oxidation of chlorophenols. <i>Chemosphere</i> , 2017, 182, 624-629.	8.2	16
49	Can electrochemical oxidation techniques really decontaminate saline dyes wastewater?. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1648-1653.	6.7	14
50	Robust and switchable superwetting sponge-like membrane: Towards on-demand emulsion separation and aqueous pollutant degradation. <i>Separation and Purification Technology</i> , 2021, 258, 117469.	7.9	10
51	Non-radical pathway dominated by singlet oxygen under high salinity condition towards efficient degradation of organic pollutants and inhibition of AOX formation. <i>Separation and Purification Technology</i> , 2022, 291, 120921.	7.9	9
52	Resolving the kinetic and intrinsic constraints of heat-activated peroxydisulfate oxidation of iopromide in aqueous solution. <i>Journal of Hazardous Materials</i> , 2020, 384, 121281.	12.4	3