

Bo Sheng

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,740
citations

279778

23
h-index

414395

32
g-index

32
all docs

32
docs citations

32
times ranked

2752
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	A novel carbon nanotubes reinforced superhydrophobic and superoleophilic polyurethane sponge for selective oil/water separation through a chemical fabrication. <i>Journal of Materials Chemistry A</i> , 2015, 3, 266-273.	10.3	348
3	Effects of chloride ions on bleaching of azo dyes by Co ²⁺ /oxone reagent: Kinetic analysis. <i>Journal of Hazardous Materials</i> , 2011, 190, 1083-1087.	12.4	273
4	Pivotal roles of MoS ₂ in boosting catalytic degradation of aqueous organic pollutants by Fe(II)/PMS. <i>Chemical Engineering Journal</i> , 2019, 375, 121989.	12.7	192
5	Superamphiphobic and Electroactive Nanocomposite toward Self-Cleaning, Antiwear, and Anticorrosion Coatings. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12481-12493.	8.0	145
6	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
7	Nanostructured Co ₃ O ₄ 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
8	Cu ²⁺ /Cu ⁺ cycle promoted PMS decomposition with the assistance of Mo for the degradation of organic pollutant. <i>Journal of Hazardous Materials</i> , 2021, 411, 125050.	12.4	105
9	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
10	Hierarchical MnO ₂ 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
11	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
12	Co ₃ O ₄ 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
13	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
14	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
15	One-step fabrication of a nickel foam-based superhydrophobic and superoleophilic box for continuous oil/water separation. <i>Journal of Materials Science</i> , 2015, 50, 4707-4716.	3.7	48
16	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
17	Degradation of reactive dyes by contact glow discharge electrolysis in the presence of Cl ⁻ ions: Kinetics and AOX formation. <i>Electrochimica Acta</i> , 2011, 58, 364-371.	5.2	40
18	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

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19	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
20	On peroxymonosulfate-based treatment of saline wastewater: when phosphate and chloride co-exist. <i>RSC Advances</i> , 2018, 8, 13865-13870.	3.6	26
21	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
22	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
23	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
24	Durable Self-Healing Superhydrophobic Coating with Biomimic "Chloroplast" Analogous Structure. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600040.	3.7	23
25	Accelerated oxidation of 2,4,6-trichlorophenol in Cu(II)/H ₂ O ₂ /Cl ⁻ system: A unique "halotolerant" Fenton-like process?. <i>Environment International</i> , 2019, 132, 105128.	10.0	22
26	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
27	Facile fabrication approach for a novel multifunctional superamphiphobic coating based on chemically grafted montmorillonite/Al ₂ O ₃ -polydimethylsiloxane binary nanocomposite. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	19
28	Ultrahigh-flux (>190,000 L·m ⁻² ·h ⁻¹) separation of oil and water by a robust and durable Cu(OH) ₂ nanoneedles mesh with inverse wettability. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 569-582.	9.4	18
29	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
30	Toward Efficient Demulsification of Produced Water in Oilfields: Solar STEP Directional Degradation of Polymer on Interfacial Film of Emulsions. <i>Energy & Fuels</i> , 2016, 30, 9686-9692.	5.1	16
31	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
32	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