

Bo Sheng

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,740
citations

279798
23
h-index

414414
32
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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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 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 |