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Non-photochemical production of singlet oxygen via activation of persulfate by carbon nanotubes

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609	Exploring the Role of Persulfate in the Activation Process: Radical Precursor Versus Electron Acceptor. <b>2017</b> , 51, 10090-10099		184
608	Magnetic Fe <sub>3</sub> O <sub>4</sub> crystal doped hierarchical porous carbon fibers for removal of organic pollutants. <b>2017</b> , 5, 18071-18080		86
607	Oxidation Kinetics of Bromophenols by Nonradical Activation of Peroxydisulfate in the Presence of Carbon Nanotube and Formation of Brominated Polymeric Products. <b>2017</b> , 51, 10718-10728		102
606	Gravity driven ultrafast removal of organic contaminants across catalytic superwetting membranes. <b>2017</b> , 5, 25266-25275		33
605	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <b>2018</b> , 51, 678-687		573
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603	Sludge biochar-based catalysts for improved pollutant degradation by activating peroxymonosulfate. <b>2018</b> , 6, 8978-8985		161
602	Assessing the role of silica gel in the degradation of p -nitrophenol via Zn(0)-activated persulfate. <b>2018</b> , 88, 169-176		20
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600	Heterogeneous activation of peroxymonosulfate by hierarchical CuBiO to generate reactive oxygen species for refractory organic compounds degradation: morphology and surface chemistry derived reaction and its mechanism. <b>2018</b> , 25, 4419-4434		25
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457	Controlled pyrolysis of MIL-88A to prepare iron/carbon composites for synergistic persulfate oxidation of phenol: Catalytic performance and mechanism. <b>2020</b> , 398, 122938		30
456	Potential Difference Driving Electron Transfer Defective Carbon Nanotubes toward Selective Oxidation of Organic Micropollutants. <b>2020</b> , 54, 8464-8472		133
455	Sustainable Catalytic Processes Driven by Graphene-Based Materials. <b>2020</b> , 8, 672		6
454	Enhanced catalytic oxidation of benzotriazole via peroxymonosulfate activated by CoFe <sub>2</sub> O <sub>4</sub> supported onto nitrogen-doped three-dimensional graphene aerogels. <b>2020</b> , 400, 125897		18
453	Degradation of Acid Red 73 by Activated Persulfate in a Heat/FeO@AC System with Ultrasound Intensification. <b>2020</b> , 5, 13739-13750		17
452	Enhanced thermal activation of peroxymonosulfate by activated carbon for efficient removal of perfluorooctanoic acid. <b>2020</b> , 399, 125722		24
451	Efficient degradation of sulfamethoxazole by NiCoO modified expanded graphite activated peroxymonosulfate: Characterization, mechanism and degradation intermediates. <b>2020</b> , 399, 123103		37

450	The removal of azo dye from aqueous solution by oxidation with peroxydisulfate in the presence of granular activated carbon: Performance, mechanism and reusability. <b>2020</b> , 259, 127400	15
449	Fe-Activated Peroxymonosulfate Enhances the Degradation of Dibutyl Phthalate on Ground Quartz Sand. <b>2020</b> , 54, 9052-9061	19
448	Activated persulfate by iron-based materials used for refractory organics degradation: a review. <b>2020</b> , 81, 853-875	12
447	Selective removal of phenanthrene for the recovery of sodium dodecyl sulfate by UV-C and UV-C/PDS processes: Performance, mechanism and soil washing recycling. <b>2020</b> , 400, 123141	10
446	2D N-Doped Porous Carbon Derived from Polydopamine-Coated Graphitic Carbon Nitride for Efficient Nonradical Activation of Peroxymonosulfate. <b>2020</b> , 54, 8473-8481	124
445	Remediation of Cu-phenanthrene co-contaminated soil by soil washing and subsequent photoelectrochemical process in presence of persulfate. <b>2020</b> , 400, 123111	12
444	Blue Light-Gated Reversible Silver Nanozyme Reaction Networks that Achieve Life-like Adaptivity. <b>2020</b> , 8, 5076-5081	14
443	New Sustainable Approach for the Production of Fe <sub>3</sub> O <sub>4</sub> /Graphene Oxide-Activated Persulfate System for Dye Removal in Real Wastewater. <b>2020</b> , 12, 733	28
442	pH-dependent transformation products and residual toxicity evaluation of sulfamethoxazole degradation through non-radical oxygen species involved process. <b>2020</b> , 390, 124512	25
441	In-situ formed N-doped bamboo-like carbon nanotubes encapsulated with Fe nanoparticles supported by biochar as highly efficient catalyst for activation of persulfate (PS) toward degradation of organic pollutants. <b>2020</b> , 402, 126090	64
440	Red mud modified sludge biochar for the activation of peroxydisulfate: Singlet oxygen dominated mechanism and toxicity prediction. <b>2020</b> , 740, 140388	45
439	Activation of peroxydisulfate with CuCo <sub>2</sub> O <sub>4</sub> @kaolin for the efficient degradation of phenacetin. <b>2020</b> , 401, 126014	27
438	Enhancement of organic contaminants degradation at low dosages of Fe(III) and H <sub>2</sub> O <sub>2</sub> in g-C <sub>3</sub> N <sub>4</sub> promoted Fe(III)/H <sub>2</sub> O <sub>2</sub> system under visible light irradiation. <b>2020</b> , 251, 117333	10
437	Mechanistic insights into adsorptive and oxidative removal of monochlorobenzene in biochar-supported nanoscale zero-valent iron/persulfate system. <b>2020</b> , 400, 125811	40
436	Degradation of bisphenol A by peroxydisulfate activated with oxygen vacancy modified nano-NiO-ZnO composite oxides: A typical surface-bound radical system. <b>2020</b> , 400, 125915	52
435	The overestimated role of singlet oxygen for pollutants degradation in some non-photochemical systems. <b>2020</b> , 401, 126128	25
434	Reactive species in advanced oxidation processes: Formation, identification and reaction mechanism. <b>2020</b> , 401, 126158	254
433	Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator. <b>2020</b> , 271, 111022	18

432	Uniform N-coordinated single-atomic iron sites dispersed in porous carbon framework to activate PMS for efficient BPA degradation via high-valent iron-oxo species. <b>2020</b> , 389, 124382	84
431	Novel magnetic rod-like Mn-Fe oxycarbide toward peroxymonosulfate activation for efficient oxidation of butyl paraben: Radical oxidation versus singlet oxygenation. <b>2020</b> , 268, 118549	58
430	Crucial roles of oxygen and superoxide radical in bisulfite-activated persulfate oxidation of bisphenol AF: Mechanisms, kinetics and DFT studies. <b>2020</b> , 391, 122228	30
429	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. <b>2020</b> , 54, 3064-3081	605
428	Non-radical PMS activation by the nanohybrid material with periodic confinement of reduced graphene oxide (rGO) and Cu hydroxides. <b>2020</b> , 392, 122316	53
427	Enhanced kinetic performance of peroxymonosulfate/ZVI system with the addition of copper ions: Reactivity, mechanism, and degradation pathways. <b>2020</b> , 393, 122399	25
426	ROS reevaluation for degradation of 4-chloro-3,5-dimethylphenol (PCMX) by UV and UV/persulfate processes in the water: Kinetics, mechanism, DFT studies and toxicity evolution. <b>2020</b> , 390, 124610	20
425	Piezo-activation of peroxymonosulfate for benzothiazole removal in water. <b>2020</b> , 393, 122448	47
424	Enhancement of solar water disinfection using H <sub>2</sub> O <sub>2</sub> generated in situ by electrochemical reduction. <b>2020</b> , 267, 118730	12
423	N, S-Doped porous carbons for persulfate activation to remove tetracycline: Nonradical mechanism. <b>2020</b> , 391, 122055	66
422	Tuning of Persulfate Activation from a Free Radical to a Nonradical Pathway through the Incorporation of Non-Redox Magnesium Oxide. <b>2020</b> , 54, 2476-2488	142
421	One-step preparation of ZVI-sludge derived biochar without external source of iron and its application on persulfate activation. <b>2020</b> , 714, 136728	63
420	Visible light-induced activation of peroxymonosulfate in the presence of ferric ions for the degradation of organic pollutants. <b>2020</b> , 240, 116620	16
419	Application of biochar in advanced oxidation processes: supportive, adsorptive, and catalytic role. <b>2020</b> , 27, 37286-37312	41
418	Engineered biochar derived from food waste digestate for activation of peroxymonosulfate to remove organic pollutants. <b>2020</b> , 107, 211-218	34
417	Direct conversion of wet sewage sludge to carbon catalyst for sulfamethoxazole degradation through peroxymonosulfate activation. <b>2020</b> , 728, 138853	13
416	Nonradical oxidation in persulfate activation by graphene-like nanosheets (GNS): Differentiating the contributions of singlet oxygen ( <sup>1</sup> O <sub>2</sub> ) and sorption-dependent electron transfer. <b>2020</b> , 393, 124725	47
415	Efficient activation of peroxydisulfate (PDS) by rice straw biochar modified by copper oxide (RSBC-CuO) for the degradation of phenacetin (PNT). <b>2020</b> , 395, 125094	24

4 <sup>14</sup>	Metal-free carbocatalysis for persulfate activation toward nonradical oxidation: Enhanced singlet oxygen generation based on active sites and electronic property. <b>2020</b> , 396, 125107	30
4 <sup>13</sup>	B-doped graphitic porous biochar with enhanced surface affinity and electron transfer for efficient peroxydisulfate activation. <b>2020</b> , 396, 125119	59
4 <sup>12</sup>	Diatomite supported hierarchical 2D CoNi <sub>3</sub> O <sub>4</sub> nanoribbons as highly efficient peroxymonosulfate catalyst for atrazine degradation. <b>2020</b> , 272, 118971	44
4 <sup>11</sup>	Reactive Oxygen Species and Catalytic Active Sites in Heterogeneous Catalytic Ozonation for Water Purification. <b>2020</b> , 54, 5931-5946	97
4 <sup>10</sup>	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. <b>2020</b> , 54, 6438-6447	188
4 <sup>09</sup>	A novel peroxymonosulfate activation process by periclast for efficient singlet oxygen-mediated degradation of organic pollutants. <b>2021</b> , 403, 126445	35
4 <sup>08</sup>	Graphitic carbon nitride-based materials in activating persulfate for aqueous organic pollutants degradation: A review on materials design and mechanisms. <b>2021</b> , 262, 127675	41
4 <sup>07</sup>	A study on advanced oxidation mechanism of MnCo <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> degradation of nitrobenzene: Sacrificial oxidation and radical oxidation. <b>2021</b> , 403, 126400	33
4 <sup>06</sup>	Developing a solar photothermal method for peroxydisulfate activation for water purification: Taking degradation of sulfamethoxazole as an example. <b>2021</b> , 403, 126324	12
4 <sup>05</sup>	Enhanced activation of peroxydisulfate by strontium modified BiFeO <sub>3</sub> perovskite for ciprofloxacin degradation. <b>2021</b> , 99, 249-259	12
4 <sup>04</sup>	Carbothermal synthesis of biochar-supported metallic silver for enhanced photocatalytic removal of methylene blue and antimicrobial efficacy. <b>2021</b> , 401, 123382	15
4 <sup>03</sup>	Activating peroxydisulfate with Co <sub>3</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> double-shelled nanocages to selectively degrade bisphenol A via nonradical oxidation process. <b>2021</b> , 282, 119585	54
4 <sup>02</sup>	Iron-doped cuprous oxides toward accelerated nonradical oxidation: Doping induced controlled facet transformation and optimized electronic structure. <b>2021</b> , 407, 127172	9
4 <sup>01</sup>	Nitrogen-Coordinated Cobalt Embedded in a Hollow Carbon Polyhedron for Superior Catalytic Oxidation of Organic Contaminants with Peroxymonosulfate. <b>2021</b> , 1, 76-85	21
4 <sup>00</sup>	Pyrite-activated persulfate for simultaneous 2,4-DCP oxidation and Cr(VI) reduction. <b>2021</b> , 406, 126758	50
399	Activation of peroxymonosulfate by iron-biochar composites: Comparison of nanoscale Fe with single-atom Fe. <b>2021</b> , 582, 598-609	27
398	Nonradicals induced degradation of organic pollutants by peroxydisulfate (PDS) and peroxymonosulfate (PMS): Recent advances and perspective. <b>2021</b> , 765, 142794	69
397	Highly efficient degradation of rhodamine B by carbon nanotubes-activated persulfate. <b>2021</b> , 256, 117788	14

396	Efficient transformation of DDT with peroxymonosulfate activation by different crystallographic MnO. <b>2021</b> , 759, 142864	13
395	Stepwise carbonization of nanocellulose to N-doped carbons with structural transformation and enhanced peroxymonosulfate activation. <b>2021</b> , 407, 127185	6
394	Ultrasound-assisted synthesized BiFeO <sub>3</sub> as FeOH <sup>+</sup> promoted peroxymonosulfate activator for highly efficient degradation of tetracycline. <b>2021</b> , 854, 157281	12
393	ZIF-8 derived Fe-N coordination moieties anchored carbon nanocubes for efficient peroxymonosulfate activation via non-radical pathways: Role of FeN sites. <b>2021</b> , 405, 124199	36
392	Degradation of organic pollutants by ultraviolet/ozone in high salinity condition: Non-radical pathway dominated by singlet oxygen. <b>2021</b> , 268, 128796	11
391	Manganese doped iron-carbon composite for synergistic persulfate activation: Reactivity, stability, and mechanism. <b>2021</b> , 405, 124228	18
390	Synthesis strategies and emerging mechanisms of metal-organic frameworks for sulfate radical-based advanced oxidation process: A review. <b>2021</b> , 421, 127863	41
389	Yeast biomass-induced CoP/biochar composite for sulfonamide antibiotics degradation through peroxymonosulfate activation. <b>2021</b> , 268, 115930	31
388	Catalytic oxidation of naproxen in cobalt spinel ferrite decorated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene activated persulfate system: Mechanisms and pathways. <b>2021</b> , 407, 127842	36
387	Polarized heterogeneous CuO-CN for peroxymonosulfate nonradical activation: An enhancement mechanism of mediated electron transfer. <b>2021</b> , 420, 127619	14
386	Waste valorization: Transforming the fishbone biowaste into biochar as an efficient persulfate catalyst for degradation of organic pollutant. <b>2021</b> , 291, 125225	12
385	A continuous-flow catalytic process with natural hematite-alginate beads for effective water decontamination and disinfection: Peroxymonosulfate activation leading to dominant sulfate radical and minor non-radical pathways. <b>2021</b> , 411, 127738	7
384	Efficient degradation of roxarsone and simultaneous in-situ adsorption of secondary inorganic arsenic by a combination of CoO-YO and peroxymonosulfate. <b>2021</b> , 407, 124559	15
383	Uncertainty and misinterpretation over identification, quantification and transformation of reactive species generated in catalytic oxidation processes: A review. <b>2021</b> , 408, 124436	65
382	Rapid removal of organic pollutants by a novel persulfate/brochantite system: Mechanism and implication. <b>2021</b> , 585, 400-407	8
381	Staged assessment for the involving mechanism of humic acid on enhancing water decontamination using HO-Fe(III) process. <b>2021</b> , 407, 124853	5
380	Graphene-based catalytic membranes for water treatment [A review]. <b>2021</b> , 9, 104930	8
379	Enhanced degradation of 2,4,6-trichlorophenol by activated peroxymonosulfate with sulfur doped copper manganese bimetallic oxides. <b>2021</b> , 417, 128121	7

378	Assessing the role of CNTs in H <sub>2</sub> O <sub>2</sub> /Fe(III) Fenton-like process: Mechanism, DFT calculations and ecotoxicity evaluation. <b>2021</b> , 259, 118218	5
377	Magnetite/graphite carbon nitride composite for peroxymonosulfate non-radical activation. <b>2021</b> , 611, 125895	7
376	Electron-transfer-dominated non-radical activation of peroxydisulfate for efficient removal of chlorophenol contaminants by one-pot synthesized nitrogen and sulfur codoped mesoporous carbon. <b>2021</b> , 194, 110496	9
375	Dark formation of reactive oxygen species by bifunctional copper doped sodium bismuthate: Direct oxidation vs catalytic oxidation of organic pollutants. <b>2021</b> , 406, 124297	1
374	Non-radical reactions in persulfate-based homogeneous degradation processes: A review. <b>2021</b> , 421, 127818	20
373	Activation of peroxydisulfate by a novel Cu-CuO@CNTs composite for 2, 4-dichlorophenol degradation. <b>2021</b> , 754, 141883	20
372	The p and d hybridization interaction in Fe-N-C boosts peroxymonosulfate non-radical activation. <b>2021</b> , 258, 118025	5
371	The carbon nanotubes-based materials and their applications for organic pollutant removal: A critical review. <b>2021</b> , 32, 1626-1636	55
370	Efficient persulfate non-radical activation of electron-rich copper active sites induced by oxygen on graphitic carbon nitride. <b>2021</b> , 762, 143127	10
369	Influence of surface functionalities of pyrogenic carbonaceous materials on the generation of reactive species towards organic contaminants: A review. <b>2021</b> , 404, 127066	30
368	Aminated N-doped graphene hydrogel for long-term catalytic oxidation in strong acidic environment. <b>2021</b> , 401, 123742	6
367	Peroxydisulfate Activation and Singlet Oxygen Generation by Oxygen Vacancy for Degradation of Contaminants. <b>2021</b> , 55, 2110-2120	52
366	Electron transfer mechanism of peroxydisulfate activation by sewage sludge-derived biochar for enhanced degradation of sulfamethoxazole.	2
365	Natural organic matter adsorption conditions influence photocatalytic reaction pathways of phosphate-treated titanium dioxide nanoparticles. <b>2021</b> , 8, 2165-2176	1
364	Advanced oxidation. <b>2021</b> , 225-324	1
363	Efficient activation of persulfate by calcium sulfate whisker supported nanoscale zero-valent iron for methyl orange removal.. <b>2020</b> , 11, 452-461	2
362	Carbocatalytic ozonation toward advanced water purification. <b>2021</b> , 9, 18994-19024	7
361	Novel strategy of using a C/C electrodes electro-activated peroxymonosulfate to remove NO from simulated flue gas. <b>2021</b> , 257, 117859	6

360	The mechanism changes during bisphenol A degradation in three iron functionalized biochar/peroxymonosulfate systems: The crucial roles of iron contents and graphitized carbon layers. <b>2021</b> , 404, 124145	27
359	Incorporating Fe <sub>3</sub> C into B, N co-doped CNTs: Non-radical-dominated peroxymonosulfate catalytic activation mechanism. <b>2021</b> , 405, 126686	34
358	Co-Zeolitic Imidazolate Framework@Cellulose Aerogels from Sugarcane Bagasse for Activating Peroxymonosulfate to Degrade P-Nitrophenol. <b>2021</b> , 13,	4
357	Conversion of aniline contaminant to valuable polyaniline polymers from wastewater under alkaline conditions. <b>2021</b> , 503, 111430	4
356	The removal efficiencies and mechanism of aniline degradation by peroxydisulfate activated with magnetic Fe-Mn oxides composite. <b>2021</b> , 11, 212-223	4
355	Evolution of Singlet Oxygen by Activating Peroxydisulfate and Peroxymonosulfate: A Review. <b>2021</b> , 18,	12
354	Recent advances in waste water treatment through transition metal sulfides-based advanced oxidation processes. <i>Water Research</i> , <b>2021</b> , 192, 116850	12.5 48
353	Kinetic removal of acetaminophen and phenacetin during LED-UV photolysis of persulfate system: Reactive oxygen species generation. <b>2021</b> , 269, 129337	9
352	MOFs-derived magnetic C@Cu-Ni bimetal particles: An efficient peroxymonosulfate activator for 2,4,6-trichlorophenol degradation. <b>2021</b> , 269, 129394	7
351	Activation of peroxymonosulfate by natural molybdenite for dye degradation: Identification of reactive species and catalytic mechanism. <b>2021</b> , 22, 101403	6
350	One-step synthesis of nitrogen and sulfur co-doped mesoporous graphite-like carbon nanosheets as a bifunctional material for tetracycline removal via adsorption and catalytic degradation processes: Performance and mechanism. <b>2021</b> , 412, 128521	21
349	Activation of persulfate by MnOOH: Degradation of organic compounds by nonradical mechanism. <b>2021</b> , 272, 129629	13
348	Perdisulfate-assisted advanced oxidation of 2,4-dichlorophenol by bio-inspired iron encapsulated biochar catalyst. <b>2021</b> , 592, 358-370	4
347	Rational construction of CeO <sub>2</sub> /rO <sub>2</sub> @MoS <sub>2</sub> hybrid nanoflowers for enhanced sonophotocatalytic degradation of naproxen: Mechanisms and degradation pathways. <b>2021</b> , 215, 108780	12
346	Singlet oxygen triggered by robust bimetallic MoFe/TiO <sub>2</sub> nanospheres of highly efficacy in solar-light-driven peroxymonosulfate activation for organic pollutants removal. <b>2021</b> , 286, 119930	34
345	Simultaneous oxidation of 4-aminophenylarsonic acid and adsorption of the produced inorganic arsenic by a combination of Co <sub>3</sub> O <sub>4</sub> -La <sub>2</sub> CO <sub>5</sub> @RSBC with peroxymonosulfate. <b>2021</b> , 413, 127417	7
344	Insight into the effects of hydroxyl groups on the rates and pathways of tetracycline antibiotics degradation in the carbon black activated peroxydisulfate oxidation process. <b>2021</b> , 412, 125256	19
343	Visible light responsive TiO <sub>2</sub> - graphene oxide nanosheets - Zn phthalocyanine ternary heterojunction assisted photoelectrocatalytic degradation of Orange G. <b>2021</b> , 414, 113291	5



342	The synergistic effect in metal-free graphene oxide coupled graphitic carbon nitride/light/peroxymonosulfate system: Photothermal effect and catalyst stability. <b>2021</b> , 178, 81-91	4
341	Direct and efficient reduction of perfluorooctanoic acid using bimetallic catalyst supported on carbon. <b>2021</b> , 412, 125224	9
340	Engineering carbon nanocatalysts towards efficient degradation of emerging organic contaminants via persulfate activation: A review. <b>2021</b> , 33, 1-1	13
339	Degradation of 2,4-DCP using persulfate and iron/E-carbon micro-electrolysis coupling system. <b>2021</b> , 413, 125381	12
338	Degradation of organics using LaFeO <sub>3</sub> as a persulfate activator under low-intensity ultra-violet-light irradiation: catalytic performance and mechanism. <b>2021</b> ,	2
337	Carbon aerogel from forestry biomass as a peroxymonosulfate activator for organic contaminants degradation. <b>2021</b> , 413, 125438	15
336	Mechanism of carbon tetrachloride reduction in Fe(II) activated percarbonate system in the environment of sodium dodecyl sulfate. <b>2021</b> , 266, 118549	8
335	Transforming CO <sub>2</sub> into Sulfur-Doped Carbon As a High-Efficiency Persulfate Catalyst for the Degradation of 2,4-Dichlorophenol: Influential Factors, Activation Mechanism, and Regeneration of Catalyst. <b>2021</b> , 1, 1796-1806	4
334	Insights into the mechanism of peroxydisulfate activated by magnetic spinel CuFe <sub>2</sub> O <sub>4</sub> /SBC as a heterogeneous catalyst for bisphenol S degradation. <b>2021</b> , 416, 129162	15
333	Thiourea-assisted one-step fabrication of a novel nitrogen and sulfur co-doped biochar from nanocellulose as metal-free catalyst for efficient activation of peroxymonosulfate. <b>2021</b> , 416, 125796	18
332	Dual nonradical degradation of acetaminophen by peroxymonosulfate activation with highly reusable and efficient N/S co-doped ordered mesoporous carbon. <b>2021</b> , 268, 118697	15
331	Detection of Oxidative Stress Induced by Nanomaterials in Cells-The Roles of Reactive Oxygen Species and Glutathione. <b>2021</b> , 26,	13
330	Non-covalent doping of carbon nitride with biochar: Boosted peroxymonosulfate activation performance and unexpected singlet oxygen evolution mechanism. <b>2021</b> , 418, 129504	25
329	Insight into the degradation of methomyl in water by peroxymonosulfate. <b>2021</b> , 9, 105358	8
328	Efficient removal of bisphenol S by non-radical activation of peroxydisulfate in the presence of nano-graphite. <i>Water Research</i> , <b>2021</b> , 201, 117288	12.5 9
327	Activation of persulfates by carbonaceous materials: A review. <b>2021</b> , 418, 129297	54
326	Rationally designed Co <sub>3</sub> O <sub>4</sub> -SnO <sub>2</sub> activated peroxymonosulfate for the elimination of chloramphenicol. <b>2021</b> , 418, 129401	18
325	Sulfur-modified chitosan derived N,S-co-doped carbon as a bifunctional material for adsorption and catalytic degradation sulfamethoxazole by persulfate. <b>2022</b> , 424, 127270	4

324	Tuning reaction pathways of peroxymonosulfate-based advanced oxidation process via defect engineering. <b>2021</b> , 2, 100550	3
323	Controllable drilling by corrosive Cu <sub>1</sub> O <sub>x</sub> to access highly accessible single-site catalysts for bacterial disinfection. <b>2021</b> , 293, 120228	5
322	Persulfate activation by nanodiamond-derived carbon onions: Effect of phase transformation of the inner diamond core on reaction kinetics and mechanisms. <b>2021</b> , 293, 120205	12
321	Panda manure biochar-based green catalyst to remove organic pollutants by activating peroxymonosulfate: important role of non-free radical pathways. <b>2021</b> , 106485	1
320	Insights into the nonradical degradation mechanisms of antibiotics in persulfate activation by tourmaline. <b>2021</b> , 270, 118772	3
319	A Review of Manganese(III) (Oxyhydr)Oxides Use in Advanced Oxidation Processes. <b>2021</b> , 26,	0
318	Efficient degradation of sulfamethazine via activation of percarbonate by chalcopyrite. <i>Water Research</i> , <b>2021</b> , 202, 117451	12.5 14
317	Carbon nitrideBased cuprous catalysts induced nonradical-led oxidation by peroxydisulfate: Role of cuprous and dissolved oxygen. <b>2021</b> , 419, 129667	4
316	A new application pattern for sludge-derived biochar adsorbent: Ideal persulfate activator for the high-efficiency mineralization of pollutants. <b>2021</b> , 419, 126343	9
315	Catalytic degradation of oxytetracycline via FeVO <sub>4</sub> nanorods activating PMS and the insights into the performance and mechanism. <b>2021</b> , 9, 105864	15
314	Recent advances in nanoscale zero-valent iron/oxidant system as a treatment for contaminated water and soil. <b>2021</b> , 9, 106276	2
313	New insights into the effect of adsorption on catalysis in the metal-free persulfate activation process for removing organic pollutants. <b>2021</b> , 272, 118923	6
312	N-doped biochar from sewage sludge for catalytic peroxydisulfate activation toward sulfadiazine: Efficiency, mechanism, and stability. <b>2021</b> , 419, 126446	10
311	Efficient peroxymonosulfate nonradical activity of Zn-Mn-Al <sub>2</sub> O <sub>3</sub> @g-C <sub>3</sub> N <sub>4</sub> via synergism of Zn, Mn doping and g-C <sub>3</sub> N <sub>4</sub> composite. <b>2021</b> , 272, 118965	2
310	Removal of chlorophenols in the aquatic environment by activation of peroxymonosulfate with nMnO <sub>x</sub> @Biochar hybrid composites: Performance and mechanism. <b>2021</b> , 283, 131188	6
309	Unveiling the interaction of epigallocatechin-3-gallate with peroxymonosulfate for degradation of bisphenol S: Two-stage kinetics and identification of reactive species. <b>2021</b> , 274, 119040	2
308	In situ synthesis of FeOOH-coated trimanganese tetroxide composites catalyst for enhanced degradation of sulfamethoxazole by peroxymonosulfate activation. <b>2021</b> , 275, 119184	1
307	Peroxydisulfate activation by photo-generated charges on mesoporous carbon nitride for removal of chlorophenols. <b>2021</b> , 296, 120370	11

306	Mineralization of refractory organics in oil refinery wastewater by the catalytic ozonation with magnetic praseodymium-catalysts: Catalytic performances and mechanisms. <b>2021</b> , 277, 119506	5
305	Fe, Cu-coordinated ZIF-derived bimetal encapsulated N-doped carbon nanotube for efficient remediation of various aqueous pollutants. <b>2021</b> , 426, 131801	2
304	Electrochemical behaviors of biochar materials during pollutant removal in wastewater: A review. <b>2021</b> , 425, 130585	5
303	Green synthesized nanosilver-biochar photocatalyst for persulfate activation under visible-light illumination. <b>2021</b> , 284, 131237	3
302	Peracetic acid enhanced electrochemical advanced oxidation for organic pollutant elimination. <b>2021</b> , 276, 119317	11
301	Sucrose-derived N-doped carbon xerogels as efficient peroxydisulfate activators for non-radical degradation of organic pollutants. <b>2021</b> , 604, 660-669	6
300	Unraveling the mechanisms for persulfate-based remediation of triphenyl phosphate-contaminated soils: Complicated soil constituent effects on the formation and propagation of reactive oxygen species. <b>2021</b> , 426, 130662	5
299	Activation of peroxydisulfate using N-doped carbon-encapsulated Ni species for efficient degradation of tetracycline. <b>2021</b> , 276, 119369	8
298	Removal of organic pollutants from wastewater by advanced oxidation processes and its combination with membrane processes. <b>2021</b> , 169, 108631	21
297	Direct transformation of bulk cobalt foam into cobalt nanoparticles encapsulated in nitrogen-doped carbon nanotubes for peroxymonosulfate activation toward rhodamine B degradation. <b>2021</b> , 277, 119441	7
296	Natural cellulose supported carbon nanotubes and FeO NPs as the efficient peroxydisulfate activator for the removal of bisphenol A: An enhanced non-radical oxidation process. <b>2022</b> , 423, 127054	3
295	Synergistically boosting sulfamerazine degradation via activation of peroxydisulfate by photocatalysis of Bi <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> /PAC under visible light irradiation. <b>2022</b> , 428, 132613	7
294	Persulfate activation by reduced graphene oxide membranes: Practical and mechanistic insights concerning organic pollutants abatement. <b>2022</b> , 427, 130994	6
293	Kinetics and mechanism of synergistic adsorption and persulfate activation by N-doped porous carbon for antibiotics removals in single and binary solutions. <b>2022</b> , 423, 127083	14
292	Electrochemical activation of peroxymonosulfate (PMS) by carbon cloth anode for sulfamethoxazole degradation. <b>2022</b> , 287, 132094	7
291	Highly efficient degradation of bisphenol A with persulfate activated by vacuum-ultraviolet/ultraviolet light (VUV/UV): Experiments and theoretical calculations. <b>2022</b> , 429, 132485	4
290	Tetracycline removal via adsorption and metal-free catalysis with 3D macroscopic N-doped porous carbon nanosheets: Non-radical mechanism and degradation pathway.. <b>2022</b> , 111, 351-366	9
289	PdO <sub>2</sub> interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. <b>2022</b> , 428, 131194	4

288	Novel strategy for the efficient degradation of organic contaminants using porous graphite electrodes: Synergistic mechanism of anodic and cathodic reactions. <b>2022</b> , 429, 132340	1
287	Enhanced degradation of tetracycline by Cu(II) complexation in the FeS/sulfite system. <b>2022</b> , 421, 126673	4
286	Ultrafine-Mn <sub>2</sub> O <sub>3</sub> @N-doped porous carbon hybrids derived from Mn-MOFs: Dual-reaction centre catalyst with singlet oxygen-dominant oxidation process. <b>2022</b> , 429, 132299	2
285	Co/N co-doped carbonized wood sponge with 3D porous framework for efficient peroxymonosulfate activation: Performance and internal mechanism. <b>2022</b> , 421, 126735	15
284	Enhanced trichloroethene degradation performance in innovative nanoscale CaO <sub>2</sub> coupled with bisulfite system and mechanism investigation. <b>2022</b> , 278, 119539	2
283	Bisphenol S degradation via persulfate activation under UV-LED using mixed catalysts: Synergistic effect of Cu-TiO and Zn-TiO for catalysis. <b>2022</b> , 286, 131797	4
282	Metal-rich hyperaccumulator-derived biochar as an efficient persulfate activator: Role of intrinsic metals (Fe, Mn and Zn) in regulating characteristics, performance and reaction mechanisms. <b>2022</b> , 424, 127225	9
281	Role of sulfide-modified nanoscale zero-valent iron on carbon nanotubes in nonradical activation of peroxydisulfate. <b>2022</b> , 422, 126949	12
280	A novel route for catalytic activation of peroxymonosulfate by oxygen vacancies improved bismuth-doped titania for the removal of recalcitrant organic contaminant. <b>2021</b> , 28, 23368-23385	11
279	Review on carbonaceous materials as persulfate activators: structure-performance relationship, mechanism and future perspectives on water treatment. <b>2021</b> , 9, 8012-8050	27
278	Hollow Cu-Co/N-doped carbon spheres derived from ZIFs as an efficient catalyst for peroxymonosulfate activation. <b>2020</b> , 397, 125533	40
277	Regulating the redox centers of Fe through the enrichment of Mo moiety for persulfate activation: A new strategy to achieve maximum persulfate utilization efficiency. <i>Water Research</i> , <b>2020</b> , 181, 115862 <sup>12.5</sup>	43
276	The use of carbon materials in persulfate-based advanced oxidation processes: A review. <b>2020</b> , 35, 667-683	25
275	Persulfate adsorption and activation by carbon structure defects provided new insights into ofloxacin degradation by biochar. <b>2022</b> , 806, 150968	5
274	Mg-induced g-C <sub>3</sub> N <sub>4</sub> synthesis of nitrogen-doped graphitic carbon for effective activation of peroxymonosulfate to degrade organic contaminants. <b>2021</b> ,	5
273	Carbonaceous composite membranes for peroxydisulfate activation to remove sulfamethoxazole in a real water matrix. <b>2021</b> , 288, 132597	1
272	Insight into the role of binding interaction in the transformation of tetracycline and toxicity distribution. <b>2021</b> , 8, 100127	9
271	Amino-modified metal-organic frameworks as peroxymonosulfate catalyst for Bisphenol AF decontamination: ROS generation, degradation pathways, and toxicity evaluation. <b>2021</b> , 119967	2

270	Redox-Active Moieties in Dissolved Organic Matter Accelerate the Degradation of Nitroimidazoles in SO-Based Oxidation. <b>2021</b> , 55, 14844-14853	4
269	Peroxymonosulfate activation on carbon nano-onions modified graphitic carbon nitride via light-tuning radical and nonradical pathways. <b>2021</b> , 9, 106592	0
268	Insights into the multiple mechanisms of chlorophenols oxidation via activating peroxymonosulfate by 3D N-doped porous carbon. <b>2021</b> , 9, 106545	1
267	Activation of peroxydisulfate by biogenic nanocomposites of reduced graphene oxide and goethite for non-radical selective oxidation of organic contaminants: Production of singlet oxygen and direct electron transfer. <b>2021</b> , 430, 133177	3
266	Cooperation of multi-walled carbon nanotubes and cobalt doped TiO <sub>2</sub> to activate peroxymonosulfate for antipyrine photocatalytic degradation. <b>2021</b> , 119996	6
265	Coordination environment and architecture engineering over Co <sub>4</sub> N-based nanocomposite for accelerating advanced oxidation processes. <b>2021</b> , 302, 120850	3
264	Kill three birds with one stone: Iron-doped graphitic biochar from biogas residues for ammonium persulfate activation to simultaneously degrade benzo[a]pyrene and improve lettuce growth. <b>2021</b> , 430, 132844	2
263	Can biochar and hydrochar be used as sustainable catalyst for persulfate activation?. <b>2022</b> , 287, 132458	11
262	A new spent coffee grounds based biochar - Persulfate catalytic system for enhancement of urea removal in reclaimed water for ultrapure water production. <b>2022</b> , 288, 132459	4
261	Metal-free biomass with abundant carbonyl groups as efficient catalyst for the activation of peroxymonosulfate and degradation of sulfamethoxazole. <b>2022</b> , 430, 132767	2
260	Reduced graphene oxide-supported hollow Co <sub>3</sub> O <sub>4</sub> @N-doped porous carbon as peroxymonosulfate activator for sulfamethoxazole degradation. <b>2022</b> , 430, 132951	11
259	Boosting Fenton-like reaction efficiency by co-construction of the adsorption and reactive sites on N/O co-doped carbon. <b>2022</b> , 301, 120783	1
258	Layered double hydroxide based materials applied in persulfate based advanced oxidation processes: Property, mechanism, application and perspectives. <b>2021</b> , 424, 127612	6
257	Catalytic performance and periodate activation mechanism of anaerobic sewage sludge-derived biochar. <b>2021</b> , 424, 127692	4
256	Graphene/Fe@N-doped carbon hybrid derived from spent MOF adsorbent as efficient persulfate activator for degradation of tetracycline hydrochloride. <b>2021</b> , 133443	1
255	Experimental and quantum chemical study on the transformation behavior of bisphenol S by radical-driven persulfate oxidation.	1
254	Activation of persulfate by biochar for the degradation of phenolic compounds in aqueous systems. <b>2022</b> , 9, 100201	2
253	In-situ soil remediation via heterogeneous iron-based catalysts activated persulfate process: A review. <b>2021</b> , 133833	3

252	Activation of peroxydisulfate by magnetically separable rGO/MnFe <sub>2</sub> O <sub>4</sub> toward oxidation of tetracycline: Efficiency, mechanism and degradation pathways. <b>2021</b> , 282, 120137	4
251	Hierarchical nano-vesicles with bimetal-encapsulated for peroxymonosulfate activation: Singlet oxygen-dominated oxidation process. <b>2021</b> , 433, 133581	3
250	CrPO <sub>4</sub> as a recycled material supported Co <sub>3</sub> O <sub>4</sub> as an efficient peroxymonosulfate catalyst for phenacetin elimination from aqueous solution. <b>2021</b> , 433, 133558	0
249	Degradation of tetracycline over carbon nanosheet: high efficiency, mechanism and biotoxicity assessment. <b>2021</b> , 8, 3762-3773	2
248	Nano Fe <sub>3</sub> -TiO <sub>2</sub> 4 as the Heterogeneous Catalyst in an Advanced Oxidation Process for Excellent Peroxymonosulfate Activation Toward Climbazole Degradation.	
247	Synthesis of physically crosslinked PAM/CNT flakes nanocomposite hydrogel films a destructive approach.. <b>2021</b> , 11, 39095-39107	2
246	Transformation of sulfamethoxazole by sulfidated nanoscale zerovalent iron activated persulfate: Mechanism and risk assessment using environmental metabolomics.. <b>2022</b> , 428, 128244	3
245	UV-light assisted activation of persulfate by rGO-Cu <sub>3</sub> BiS <sub>3</sub> for the degradation of diclofenac. <b>2022</b> , 4, 100273	1
244	Selective regulation of peroxydisulfate-to-hydroxyl radical for efficient in-situ chemical oxidation over Fe-based metal-organic frameworks under visible light. <b>2022</b> , 406, 1-8	0
243	Deprivation of unpaired electrons on graphitic carbon nitride-based carbocatalysts by peroxydisulfate driving a nonradical oxidation process. <b>2022</b> , 334, 130220	0
242	Spontaneous nutrient recovery and disinfection of aquaculture wastewater via Mg-coconut shell carbon composites.. <b>2021</b> , 426, 128119	0
241	Application of sludge biochar combined with peroxydisulfate to degrade fluoroquinolones: Efficiency, mechanisms and implication for ISCO.. <b>2021</b> , 426, 128081	4
240	Boosting the activation of Peroxymonosulfate and the degradation of metronidazole over FeCo <sub>2</sub> O <sub>4</sub> quantum dots anchored on FeOOH Nanosheets: Inspired from octahedral Co(II) with missing angle. <b>2022</b> , 431, 133803	0
239	Hydrodynamic cavitation-enhanced heterogeneous activation of persulfate for tetracycline degradation: Synergistic effects, degradation mechanism and pathways. <b>2022</b> , 431, 134238	4
238	Efficient generation of singlet oxygen on modified g-C <sub>3</sub> N <sub>4</sub> photocatalyst for preferential oxidation of targeted organic pollutants. <b>2022</b> , 431, 134241	1
237	Structural dependent persulfate activation by coke powder for aniline degradation. <b>2022</b> , 431, 134088	1
236	Efficient catalyst prepared from water treatment residuals and industrial glucose using hydrothermal treatment: Preparation, characterization and its catalytic performance for activating peroxymonosulfate to degrade imidacloprid.. <b>2021</b> , 290, 133326	1
235	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.. <b>2022</b> , 427, 128204	10

234	Intensification of persulfate-mediated elimination of bisphenol A by a spinel cobalt ferrite-anchored g-C <sub>3</sub> N <sub>4</sub> S-scheme photocatalyst: Catalytic synergies and mechanistic interpretation. <b>2022</b> , 285, 120313	3
233	The catalyst derived from the sulfurized Co-doped metal-organic framework (MOF) for peroxymonosulfate (PMS) activation and its application to pollutant removal. <b>2022</b> , 285, 120362	11
232	Bifunctional Co <sub>3</sub> O <sub>4</sub> -La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> @C derived from MOFs for peroxymonosulfate activation to degrade roxarsone and simultaneous removal of released inorganic arsenic from water. <b>2022</b> , 432, 134426	0
231	Non-radical oxidation in environmental catalysis: Recognition, identification, and perspectives. <b>2022</b> , 433, 134385	1
230	Mechanistic insights of removing pollutant in adsorption and advanced oxidation processes by sludge biochar.. <b>2022</b> , 430, 128375	3
229	Facile synthesis of carbon-doped CoMn <sub>2</sub> O <sub>4</sub> /Mn <sub>3</sub> O <sub>4</sub> composite catalyst to activate peroxymonosulfate for ciprofloxacin degradation. <b>2022</b> , 287, 120576	0
228	Insights into the relationship of reactive oxygen species and anions in persulfate-based advanced oxidation processes for saline organic wastewater treatment.	0
227	Cobalt with porous carbon architecture: Towards of 4-nitrophenol degradation and reduction. <b>2022</b> , 288, 120595	3
226	Aminopolycarboxylic acids modified oxygen reduction by zero valent iron: Proton-coupled electron transfer, role of iron ion and reactive oxidant generation.. <b>2022</b> , 430, 128402	2
225	Complexation and reduction of soil iron minerals by natural polyphenols enhance persulfate activation for the remediation of triphenyl phosphate (TPHP)-contaminated soil. <b>2022</b> , 435, 134610	0
224	Engineering single-atom Fe-Pyridine N sites to boost peroxymonosulfate activation for antibiotic degradation in a wide pH range.. <b>2022</b> , 294, 133735	2
223	Insight into the activation of persulfate with Cu <sub>2</sub> O/visible-light: Cu(I) based photo-Fenton and Cu <sub>2</sub> O surface mediated free radical mechanism. <b>2022</b> , 143, 106502	0
222	Rapid pollutant degradation by peroxymonosulfate an unusual mediated-electron transfer pathway under spatial-confinement.. <b>2022</b> , 12, 5236-5244	2
221	Degradation of bisphenol A using peroxymonosulfate activated by single-atomic cobalt catalysts: different reactive species at acidic and alkaline pH. <b>2022</b> , 135002	1
220	Visible Light-Induced Catalyst-Free Activation of Peroxydisulfate: Pollutant-Dependent Production of Reactive Species.. <b>2022</b> ,	4
219	Singlet oxygen-dominated transformation of oxytetracycline by peroxymonosulfate with CoAl-LDH modified hierarchical porous ceramics: toxicity assessment. <b>2022</b> , 436, 135199	1
218	Electrochemical-assisted ultraviolet light coupled peroxodisulfate system to degrade ciprofloxacin in water: Kinetics, mechanism and pathways.. <b>2022</b> , 295, 133838	0
217	Nonradical Oxidation of Diclofenac in Reduced Graphene Oxide/Peroxydisulfate Systems: Kinetics, Mechanism and Degradation Pathways.	

216	Fe <sub>3</sub> O <sub>4</sub> -Ce@Bc Activates Persulfate for the Degradation of Polycyclic Aromatic Hydrocarbons (Pahs) in Contaminated Soil.	
215	Fenton-Like Oxidation Mechanism for Simultaneous Removal of Estriol and Ethinyl Estradiol by Green Synthesis of Mn <sub>3</sub> O <sub>4</sub> Nps.	
214	Degradation of Bisphenol a Using Peroxymonosulfate Activated by Single-Atomic Cobalt Catalysts: Different Reactive Species at Acidic and Alkaline Ph.	
213	Coupling of Sulfur and Boron in Carbonaceous Material to Strengthen Persulfate Activation for Antibiotic Degradation: Active Sites, Mechanism, And Toxicity Assessment.	
212	Degradation of Tetracycline by Activated Peroxodisulfate Using Cufe <sub>2</sub> o <sub>4</sub> -Loaded Biochar.	
211	Multifunctional Sites on Reduced Graphene Oxide Synergistically Improving the Degradation of Diclofenac in Peroxydisulfate Systems.	
210	Persulfate oxidation enhanced extraction to improve the removal of high concentration phenol wastewater.	0
209	Electron-Rich Ketone-Based Covalent Organic Frameworks Anchored Nickel Oxyhydroxide for Highly Efficient Peroxymonosulfate Activation and Sulfadiazine Removal: Performance and Multi-Path Reaction Mechanisms.	0
208	Highly Efficient Degradation of Trimethoprim with Ball-Milled Nitrogen-Doped Biochar Catalyst Via Persulfate Activation.	
207	Peracetic Acid Activated with Electro-Fe <sup>2+</sup> Process for Dye Removal in Water. <b>2022</b> , 12, 466	0
206	Regulating Crystal Facets of MnO <sub>2</sub> for Enhancing Peroxymonosulfate Activation to Degrade Pollutants: Performance and Mechanism. <b>2022</b> , 12, 342	2
205	Heterogeneous Photocatalytic Activation of Persulfate for the Removal of Organic Contaminants in Water: A Critical Review. <b>2022</b> , 2, 527-546	5
204	Nonradical Activation of Peroxydisulfate with In Situ Generated Amorphous MnO <sub>2</sub> in an Electro-Permanganate Process: Involvement of Singlet Oxygen, Electron Transfer, and Mn(III)aq.	0
203	Catalytic Persulfate Activation for Oxidation of Organic Pollutants: A Critical Review on Mechanisms and Controversies. <b>2022</b> , 107654	1
202	Degradation of sulfamethazine by amorphous zero-valent iron microspheres (A-mZVI) activated peroxydisulfate in groundwater. <b>2022</b> , 346, 131276	1
201	Peroxymonosulfate Activation by Photoelectroactive Nanohybrid Filter towards Effective Micropollutant Decontamination. <b>2022</b> , 12, 416	
200	Remediation of phenol contaminated soil using persulfate activated by ball-milled colloidal activated carbon.. <b>2022</b> , 310, 114709	1
199	Carbonaceous materials as effective adsorbents and catalysts for the removal of emerging contaminants from water. <b>2022</b> , 350, 131319	1



198	Peroxymonosulfate activation by different iron sulfides for bisphenol-A degradation: Performance and mechanism. <b>2022</b> , 289, 120751	1
197	Electrochemical activation of peroxydisulfate by Ti/ATO electrode: Performance and mechanism. <b>2022</b> , 289, 120800	0
196	New insight into the regulation mechanism of visible light in naproxen degradation via activation of peroxymonosulfate by MOF derived BiFeO <sub>2</sub> . <b>2022</b> , 431, 128513	1
195	Insight into the visible light activation of sulfite by Fe/g-C <sub>3</sub> N <sub>4</sub> with rich N vacancies for pollutant removal and sterilization: A novel approach for enhanced generation of oxysulfur radical. <b>2022</b> , 438, 135663	0
194	The structure-activity relationship of aromatic compounds in advanced oxidation processes:a review.. <b>2022</b> , 134071	1
193	Co@N-C nanocatalysts anchored in confined membrane pores for instantaneous pollutants degradation and antifouling via peroxymonosulfate activation. <b>2022</b> , 47, 102639	1
192	Carbon nanotube-based materials for persulfate activation to degrade organic contaminants: Properties, mechanisms and modification insights.. <b>2022</b> , 431, 128536	3
191	The effect of nanoscale zero-valent iron-loaded N-doped biochar on the generation of free radicals and nonradicals by peroxydisulfate activation. <b>2022</b> , 47, 102681	1
190	Nano Fe <sub>3</sub> -Cu O <sub>4</sub> as the heterogeneous catalyst in an advanced oxidation process for excellent peroxymonosulfate activation toward climbazole degradation. <b>2022</b> , 439, 135553	2
189	Comparative study on heterogeneous activation of peroxydisulfate and peroxymonosulfate with black carbon derived from coal tar residues: Contribution of free radical, O and surface-bound radicals.. <b>2022</b> , 433, 128819	0
188	Ultrafast degradation of micropollutants in water via electro-periodate activation catalyzed by nanoconfined Fe <sub>2</sub> O <sub>3</sub> . <b>2022</b> , 309, 121289	2
187	A comprehensive review on persulfate activation treatment of wastewater.. <b>2022</b> , 154906	3
186	Application and enhancement of mediumpressure ultraviolet activated peroxydisulfate in treating incineration leachate. <b>2022</b> , 292, 121015	
185	Highly efficient activation of persulfate by encapsulated nano-Fe <sub>0</sub> biochar for acetaminophen degradation: Rich electron environment and dominant effect of superoxide radical. <b>2022</b> , 440, 135947	2
184	Hydrothermally assisted synthesis of nano zero-valent iron encapsulated in biomass-derived carbon for peroxymonosulfate activation: The performance and mechanisms for efficient degradation of monochlorobenzene.. <b>2022</b> , 829, 154645	0
183	Efficient degradation and toxicity reduction of tetracycline by recyclable ferroferric oxide doped powdered activated charcoal via peroxymonosulfate (PMS) activation. <b>2022</b> , 441, 136061	1
182	Fast photo-Fenton-like oxidation in bismuth catalysis: A novel Fe(III) self-doped sodium bismuthate nanosheet.. <b>2022</b> , 435, 128975	0
181	Kinetics and mechanisms for sulfamethoxazole transformation in the phenolic acid-laccase ( <i>Trametes versicolor</i> ) system.. <b>2022</b> , 1	0

180	Improving the activation of peroxymonosulfate for highly efficient degradation of explosive 1,1-diamino-2,2-dinitroethylene through the synergetic effect of bimetallic oxides. <b>2022</b> , 10, 107720	0
179	Doping strategy-tuned non-radical pathway on manganese oxide for catalytic degradation of parabens. <b>2022</b> , 442, 136180	0
178	Peroxymonosulfate-activated molecularly imprinted bimetallic MOFs for targeted removal of PAHs and recovery of biosurfactants from soil washing effluents. <b>2022</b> , 443, 136412	1
177	Role of N-Doping and O-Groups in Unzipped N-Doped Cnt Carbocatalyst for Peroxomonosulfate Activation: Quantitative Structure - Activity Relationship.	0
176	Electron-Rich Ketone-Based Covalent Organic Frameworks Supported Nickel Oxyhydroxide for Highly Efficient Peroxymonosulfate Activation and Sulfadiazine Removal: Performance and Multi-Path Reaction Mechanisms.	
175	Inactivation and Photoreactivation of Blandm-1-Carrying Super-Resistant Bacteria by Uv, Chlorination and Uv/Chlorination.	
174	Recent advances in electrocatalytic membrane for the removal of micropollutants from water and wastewater. <b>2022</b> , 104342	0
173	Plasma regulates active sites on biochar to boost peroxomonosulfate activation for phenol degradation. <b>2022</b> , 10, 107833	0
172	N-doped low-rank coal based carbon catalysts for heterogeneous activation of peroxymonosulfate for ofloxacin oxidation via electron transfer and non-radical pathway. <b>2022</b> , 135, 104352	0
171	Enhanced degradation of diazinon with a WO <sub>3</sub> -Fe <sub>3</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> -persulfate system under visible light: Pathway, intermediates toxicity and mechanism. <b>2022</b> , 162, 1107-1123	1
170	Towards synergistic combination of biochar/ultrasonic persulfate enhancing removal of natural humic acids from water. <b>2022</b> , 10, 107809	0
169	Activation of peroxydisulfate by black fungus-derived N-doped biochar for tetracycline degradation via non-radical dominated oxidation pathway. <b>2022</b> , 31, 102007	0
168	Treatment of textile wastewater by sulfate radical based advanced oxidation processes. <b>2022</b> , 293, 121115	2
167	Nitrogen-doped carbon nanotubes derived from carbonized polyaniline as a robust peroxydisulfate activator for the oxidation removal of organic pollutants: Singlet oxygen dominated mechanism and structure-activity relationship. <b>2022</b> , 293, 121124	0
166	Enhanced degradation of emerging contaminants by permanganate/quinone process: Case study with bisphenol A.. <i>Water Research</i> , <b>2022</b> , 219, 118528	12.5 1
165	The drinking water disinfection performances and mechanisms of UVA-LEDs promoted by electrolysis. <b>2022</b> , 435, 129099	1
164	Developing a molecularly imprinted channels catalyst based on template effect for targeted removal of organic micropollutants from wastewaters. <b>2022</b> , 445, 136755	1
163	Simultaneous degradation of trace antibiotics in water by adsorption and catalytic oxidation induced by N-doped reduced graphene oxide (N-rGO): synergistic mechanism.	

162	Dissolved Black Carbon Induced Elimination of Bisphenol A by Peroxymonosulfate Activation through HClO Mediated Oxidation Process. <b>2022</b> , 137179	2
161	Rational Regulation of Co-N Coordination for High-Efficiency Generation of 1O <sub>2</sub> toward Nearly 100% Selective Degradation of Organic Pollutants.	0
160	Degradation of organic dye wastewater by H <sub>2</sub> O <sub>2</sub> -enhanced aluminum carbon micro-electrolysis.	0
159	Heteroatoms-doped biochar derived from deciduous resource as persulfate catalysts for efficient degradation of phenol. <b>2022</b> , 48, 102866	0
158	Cof-Derived Carbon Supported Cobalt Ultra-Small Particles: C=O and Co-N <sub>x</sub> Complex Sites Activated Pms Synergistically for Efficient Degradation of Antibiotics.	
157	ZIF-67-based Catalysts in Persulfate Advanced Oxidation Processes (PS-AOPs) for Water Remediation. <b>2022</b> , 107997	0
156	Enhanced activation of PMS by a novel Fenton-like composite Fe <sub>3</sub> O <sub>4</sub> /S-WO <sub>3</sub> for rapid chloroxyleneol degradation. <b>2022</b> , 137067	1
155	Effective hole conductivity in nitrogen-doped CVD-graphene by singlet oxygen treatment under photoactivation conditions. <b>2022</b> , 12,	2
154	Effect of activator/precursor mass ratio on sulfur-doped porous carbon for catalytic oxidation of aqueous organics with persulfate. <b>2022</b> , 135192	0
153	Fe <sub>3</sub> O <sub>4</sub> @CuO@Lignite activated coke activated persulfate advanced treatment of phenolic wastewater from coal chemical industry. <b>2022</b> , 113601	0
152	Low-temperature hydrogenation of nanodiamond as a strategy to fabricate sp <sup>2</sup> -hybridized nanocarbon as a high-performance persulfate activator. <b>2022</b> , 121589	0
151	New Insight to Piezocatalytic Peroxymonosulfate Activation: The Critical Role of Dissolved Oxygen in Mediating Radical and Nonradical Pathways. <b>2022</b> , 121584	0
150	Microwave (MW)-assisted design of cobalt anchored 2D graphene-like carbon nanosheets (Co@GCNs) as peroxydisulfate activator for tetracycline degradation and insight into the catalytic mechanism. <b>2022</b> , 295, 121358	0
149	Electron-rich ketone-based covalent organic frameworks supported nickel oxyhydroxide for highly efficient peroxydisulfate activation and sulfadiazine removal: Performance and multi-path reaction mechanisms. <b>2022</b> , 296, 121350	0
148	Carbon doped boron nitride nanosheet as efficient metal-free catalyst for peroxydisulfate activation: Important role of B-N-C moieties. <b>2022</b> , 446, 137274	0
147	Semi-quantitative probing of reactive oxygen species in persulfate-based heterogeneous catalytic oxidation systems for elucidating the reaction mechanism. <b>2022</b> , 446, 137237	0
146	Recent advances in metal-free catalysts for the remediation of antibiotics, antibiotic resistant bacterial (ARB), and antibiotic resistant genes (ARGs).	1
145	Carboxy-functionalized sludge-derived biochar for efficiently activating peroxydisulfate to degrade bisphenol A. <b>2022</b> , 121525	1

144	Ball milling-assisted preparation of N-doped biochar loaded with ferrous sulfide as persulfate activator for phenol degradation: Multiple active sites-triggered radical/non-radical mechanism. <b>2022</b> , 121639	5
143	Efficient degradation of norfloxacin by carbonized polydopamine-decorated g-C <sub>3</sub> N <sub>4</sub> activated peroxymonosulfate: Performance and mechanism. <b>2022</b> , 135439	0
142	Promoted Generation Strategies and Corresponding Roles of Singlet Oxygen in Activation of Persulfate by Nanoscale zero-valent iron Systems. <b>2022</b> , 137493	0
141	N/ZnFe <sub>2</sub> O <sub>4</sub> codoped biochar as an activator for peroxydisulfate to degrade oxytetracycline: Synthesis, property and mechanism. <b>2022</b> , 297, 121487	0
140	MXene-mediated electron transfer in Cu(II)/PMS process: From Cu(III) to Cu(I). <b>2022</b> , 297, 121428	1
139	Transforming radical to non-radical pathway in peroxymonosulfate activation on nitrogen doped carbon sphere for enhanced removal of organic pollutants: Combined effect of nitrogen species and carbon structure. <b>2022</b> , 437, 129357	2
138	Peroxydisulfate activation using B-doped biochar for the degradation of oxytetracycline in water. <b>2022</b> , 599, 153917	0
137	Enhanced oxidation of fluoroquinolones by visible light-induced peroxydisulfate: The significance of excited triplet state species. <b>2022</b> , 316, 121631	0
136	Synergistic degradation of sulfamethoxazole using peroxymonosulfate activated by Fe-Mn-Cu hollow spheres: Kinetics and mechanism studies. <b>2022</b> , 448, 137587	0
135	Insight into the nonradical mechanism of persulfate activation via visible-light for enhanced degradation of sulfonamides without catalyst. <b>2022</b> , 316, 121653	1
134	Activation of Peroxymonosulfate by Cobalt-Embedded Carbon Aerogels: Preparation and Singlet Oxygen-Dominated Catalytic Degradation Insight.	
133	Integration of Adsorption and Simultaneous Heterogeneous Catalytic Oxidation by Defective CoFe <sub>2</sub> O <sub>4</sub> Activated Peroxymonosulfate for Efficient As(III) Removal: Performance and New Insight into the Mechanism.	
132	N Itrogen-Doped Carbonized Polyaniline (N-Cpani) for Peroxydisulfate (Pds) Activation Towards Efficient Degradation of Doxycycline (Dox) Via the Non-Radical Pathway Dominated by Electron Transfer.	
131	Adsorption-enhanced sonophotocatalytic removal of tetracycline from water using ceria-zirconia (x)CeO <sub>2</sub> -(1-x)ZrO <sub>2</sub> binary oxide nanocatalyst. <b>2022</b> , 44, 213-215	
130	Multifunctional sites on reduced graphene oxide synergistically improving the degradation of diclofenac in peroxydisulfate systems. <b>2022</b> , 108251	
129	Initiating nonradical-dominated persulfate activation by N doping on Co <sub>3</sub> O <sub>4</sub> enables efficient organic pollutant degradation. <b>2022</b> , 108273	1
128	Nanoconfinement-Regulated Peroxymonosulfate Activation via an Anomalously Efficient Mediated Electron-Transfer Pathway on Cobalt.	2
127	Insights into the pollutant electron property inducing the transformation of peroxymonosulfate activation mechanisms on manganese dioxide. <b>2022</b> , 121753	0

126	Catalytic oxidation of acetaminophen through pristine and surface-modified nitrogen-doped carbon-nanotube-catalyzed peroxydisulfate activation. <b>2022</b> , 108257	1
125	The adsorption affinity of N-doped biochar plays a crucial role in peroxydisulfate activation and bisphenol A oxidative degradation.	1
124	Inactivation and photoreactivation of blaNDM-1-carrying super-resistant bacteria by UV, chlorination and UV/chlorination. <b>2022</b> , 129549	0
123	Multiple Roles of Dissolved Organic Matter in Advanced Oxidation Processes.	3
122	Reutilization of waste self-heating pad by loading cobalt: A magnetic and green peroxymonosulfate activator for naphthalene degradation. <b>2022</b> , 439, 129572	0
121	Insight into the performance and mechanism of peroxymonosulfate activation by B, N co-doped hierarchical porous carbon for phenol degradation. <b>2022</b> , 10, 108264	0
120	Amorphous Co@TiO <sub>2</sub> heterojunctions: A high-performance and stable catalyst for the efficient degradation of sulfamethazine via peroxymonosulfate activation. <b>2022</b> , 307, 135681	
119	Peroxymonosulfate activation by iron self-doped sludge-derived biochar for degradation of perfluorooctanoic acid: A singlet oxygen-dominated nonradical pathway. <b>2022</b> , 450, 137953	1
118	A robust peroxymonosulfate activator for tetracycline degradation: Mitigating deactivation via stitching N-doped carbon nanotubes with encapsulated Co nanoparticles in bubble-like architectures. <b>2022</b> , 138219	0
117	Inactivation of <i>Microcystis aeruginosa</i> by peroxydisulfate activated with single-atomic iron catalysis: Efficiency and mechanisms. <b>2022</b> , 108310	0
116	Heteroatom-Doped Hierarchically Porous Biochar for Supercapacitor Application and Phenol Pollutant Remediation. <b>2022</b> , 12, 2586	0
115	Fenton-like oxidation mechanism for simultaneous removal of estriol and ethinyl estradiol by green synthesized Mn <sub>3</sub> O <sub>4</sub> NPs. <b>2022</b> , 121978	0
114	Role of N-Doping and O-Groups in Unzipped N-Doped CNT Carbocatalyst for Peroxomonosulfate Activation: Quantitative Structure-Activity Relationship. <b>2022</b> , 12, 845	0
113	Coupling of sulfur and boron in carbonaceous material to strengthen persulfate activation for antibiotic degradation: Active sites, mechanism, and toxicity assessment. <b>2022</b> , 107755	0
112	Multi-hollow spherical CeO <sub>2</sub> activates persulfate for heterogeneous degradation of organics.	
111	Three-dimensional blocky sponge based CoMoO <sub>4</sub> catalyst activates peroxymonosulfate to degrade sulfadimethoxine: A remedy for ready-made catalysts to achieve convenient and continuous operation. <b>2022</b> , 138754	0
110	The performance and mechanism of iron-mediated chemical oxidation: Advances in hydrogen peroxide, persulfate and percarbonate oxidation. <b>2022</b> ,	0
109	Nitrogen-doped nanocarbon derived from candle soot for persulfate activation on sulfamethoxazole removal: performance and mechanism. <b>2022</b> ,	0

108	From aquatic biota to autogenous N-doping biochar using a highly efficient nonradical dominant process for sulfamethoxazole degradation. <b>2022</b> , 133750	0
107	Persulfate activation by magnetic SnS <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> /rGO nanocomposite under visible light for detoxification of organophosphorus pesticide. <b>2022</b> , 364, 119975	0
106	Changes in the catalytic activity of oxygen-doped graphitic carbon nitride for the repeated degradation of oxytetracycline. <b>2022</b> , 307, 135870	0
105	A novel, Z-scheme ZnO@AC@FeO photocatalyst, suitable for the intensification of photo-mediated peroxymonosulfate activation: Performance, reactivity and bisphenol A degradation pathways. <b>2022</b> , 321, 115851	2
104	Methyl phenyl sulfoxide (PMSO) as a quenching agent for high-valent metal-oxo species in peroxymonosulfate based processes should be reconsidered. <b>2022</b> , 12, 100378	0
103	Preventing re-emission of malodorous dimethylamine via tunable nonradical oxidation catalyzed by waste mask-derived carbocatalyst. <b>2022</b> , 450, 138510	
102	Intensification of van der Waals interaction for efficient peroxymonosulfate activation and accuracy re-evaluation of quenching experiments for reactive oxidation species identification. <b>2022</b> , 450, 138353	1
101	Calcination temperature regulates non-radical pathways of peroxymonosulfate activation via carbon catalysts doped by iron and nitrogen. <b>2023</b> , 451, 138468	1
100	A Review of Sulfate Radical-Based and Singlet Oxygen-Based Advanced Oxidation Technologies: Recent Advances and Prospects. <b>2022</b> , 12, 1092	0
99	Magnetic biochar based on platanus leaves and iron sludge for persulfate activation and catalytic degradation of tetracycline. <b>2022</b> , 370, 133336	0
98	Fe <sub>x</sub> N produced in pharmaceutical sludge biochar by endogenous Fe and exogenous N doping to enhance peroxymonosulfate activation for levofloxacin degradation. <b>2022</b> , 224, 119022	2
97	Efficient degradation of diclofenac by digestate-derived biochar catalyzed peroxymonosulfate oxidation: Performance, machine learning prediction, and mechanism. <b>2022</b> , 167, 77-88	0
96	Covalent organic frameworks derived carbon supported cobalt ultra-small particles: C O and Co-N <sub>x</sub> complex sites activated peroxymonosulfate synergistically for efficient degradation of levofloxacin. <b>2022</b> , 375, 134114	0
95	Peroxymonosulfate activated by FeO <sub>x</sub> /MnO <sub>y</sub> modified kaolinite for the degradation of polyvinyl alcohol: Catalytic performance, mechanism and DFT study. <b>2022</b> , 605, 154723	0
94	Strongly coupled Fe/N co-doped graphitic carbon nanosheets/carbon nanotubes for rapid degradation of organic pollutants via peroxymonosulfate activation: Performance, mechanism and degradation pathways. <b>2022</b> , 302, 122113	0
93	Water disinfection by the UVA/electro-Fenton process under near neutral conditions: Performance and mechanisms. <b>2022</b> , 308, 136488	0
92	Electron transfer mechanism of chitosan-modified natural manganese ore-cornstalk biochar composites with activated peroxymonosulfate: The role of functional groups on the surface of biochar-based composites. <b>2022</b> , 302, 122107	0
91	Electrogenerated quinone intermediates mediated peroxymonosulfate activation toward effective water decontamination and electrode antifouling. <b>2023</b> , 320, 121980	0

- 90 Co-catalytic effect of WS<sub>2</sub> on the copper slag mediated peroxodisulfate activation for the simultaneous elimination of typical flotation reagent benzotriazole and Cr(VI). **2023**, 451, 138888 ○
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- 88 Enhanced activation of peroxymonosulfate using ternary MOFs-derived MnCoFeO for sulfamethoxazole degradation: Role of oxygen vacancies. **2023**, 441, 129912 ○
- 87 Role of co-existing anions in non-radical and radical processes of carbocatalyzed persulfate activation for acetaminophen degradation. ○
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- 85 Molecular Insights into the Transformation Mechanisms of Dissolved Organic Matter Based on Ultrahigh Resolution Mass Spectrometry. **2022**, 80, 1106 ○
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- 81 KBH<sub>4</sub> Modification of Fe<sub>3</sub>O<sub>4</sub> Core Shell Carbon Microspheres Promoted Persulfate Activation for Organic Contaminants degradation: Factors and Mechanism. ○
- 80 A Review of Persulfate Activation by Magnetic Catalysts to Degrade Organic Contaminants: Mechanisms and Applications. **2022**, 12, 1058 ○
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- 78 Removal of Gaseous Volatile Organic Compounds by a Multiwalled Carbon Nanotubes/Peroxymonosulfate Wet Scrubber. **2022**, 56, 13996-14007 ○
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- 74 Optimizing Co site electron structure by construction of heterogeneous interface for efficient sulfite activation on paracetamol removal. **2022**, 10, 108660 ○
- 73 Novel magnetic graphoxide/biochar composite derived from tea for multiple SAs and QNs antibiotics removal in water. ○

- 72 Efficient and Durable Single-Atom Fe Catalyst for Fenton-like Reaction via Mediated Electron-Transfer Mechanism. ○
- 71 Integration of adsorption and simultaneous heterogeneous catalytic oxidation by defective CoFe<sub>2</sub>O<sub>4</sub> activated peroxymonosulfate for efficient As(III) removal: performance and new insight into the mechanism. **2022**, 139960 ○
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- 67 Facile fabrication of flower-like Ni-Co-Mn based LDHs and their superior catalytic performance for atenolol, nitrite and methanol. **2022**, 10, 108721 ○
- 66 N and S co-doped pine needle biochar activated peroxydisulfate for antibiotic degradation. **2022**, 379, 134619 ○
- 65 Enhanced removal of fluoroquinolone antibiotics by peroxydisulfate activated with N-doped sludge biochar: Performance, mechanism and toxicity evaluation. **2023**, 305, 122469 ○
- 64 Ferrocene doped ZIF-8 derived Fe-N-C single atom catalyst to activate peroxymonosulfate for removal of bisphenol A. **2023**, 305, 122402 ○
- 63 Nitrogen-doped carbon-based single-atom Fe catalysts: Synthesis, properties, and applications in advanced oxidation processes. **2023**, 475, 214874 1
- 62 Efficient activation of peroxydisulfate by novel bionic iron-encapsulated biochar: The key roles of electron transfer pathway and reactive oxygen species evolution. **2023**, 443, 130204 ○
- 61 Nitrogen-doped carbonized polyaniline (N-CPANI) for peroxydisulfate (PDS) activation towards efficient degradation of doxycycline (DOX) via the non-radical pathway dominated by electron transfer. **2023**, 453, 139810 ○
- 60 Cobalt-bismuth bimetallic composite anchored on carbon derived from cigarette butts as peroxymonosulfate activator for rapid removal of chloramphenicol. **2023**, 312, 137156 ○
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- 58 Activation of persulfate by vanadium oxide modified carbon nanotube for 17β-estradiol degradation in soil: Mechanism, application and ecotoxicity assessment. **2023**, 858, 159760 ○
- 57 Mechanistic insights into efficient peroxymonosulfate activation by NiCo layered double hydroxides. **2022**, 114488 ○
- 56 Ultrasound-activated peracetic acid to degrade tetracycline hydrochloride: Efficiency and mechanism. **2022**, 122635 ○
- 55 N Doped Activated Biochar from Pyrolyzing Wood Powder for Prompt BPA Removal via Peroxymonosulfate Activation. **2022**, 12, 1449 1



54	Degradation of Orange IV by UV photolysis in nitrite-containing wastewater: Influencing factors, mechanism, and response surface methodology. <b>2022</b> ,	0
53	Electric field-enhanced coupled with metal-free peroxymonosulfate activator: The selective oxidation of nonradical species-dominated system. <b>2022</b> , 227, 119323	0
52	Removal of Pharmaceuticals and Personal Care Products (PPCPs) by Free Radicals in Advanced Oxidation Processes. <b>2022</b> , 15, 8152	2
51	Resource utilization of bovine bone to prepare biochar as persulfate activator for phenol degradation. <b>2023</b> , 383, 135415	0
50	Electron transfer mechanism mediated nitrogen-enriched biochar encapsulated cobalt nanoparticles catalyst as an effective persulfate activator for doxycycline removal. <b>2023</b> , 384, 135641	0
49	The interface mechanism of sludge biochar activating persulfate to remove tetracycline: The role of the C-O-Fe bridge at the carbon surface. <b>2023</b> , 384, 135514	0
48	Facile fabrication of WO <sub>3</sub> CuO/RGO as a catalyst for enhanced catalytic oxidation of pesticide and organic dye by activation of persulfate under visible light. <b>2023</b> , 36, 102609	0
47	Recent advances in persulfate activation by magnetic ferrite-carbon composites for organic contaminants degradation: Role of carbon materials and environmental application. <b>2023</b> , 11, 109087	0
46	Activation of peroxymonosulfate by cobalt-embedded carbon aerogels: Preparation and singlet oxygen-dominated catalytic degradation insight. <b>2023</b> , 307, 122728	0
45	Removal of Bisphenol A via peroxymonosulfate activation over graphite carbon nitride supported NiCx nanoclusters catalyst: Synergistic oxidation of high-valent nickel-oxo species and singlet oxygen. <b>2023</b> , 445, 130440	0
44	Roles of graphitic N and Fe-Nx sites on persulfate non-radical activation for 2,4-dichlorophenol degradation by porous magnetic Fe <sub>Ni</sub> C catalyst. <b>2023</b> , 241, 107619	0
43	Highly-efficient peroxydisulfate activation by polyaniline-polypyrrole copolymers derived pyrolytic carbon for 2,4-dichlorophenol removal in water: Coupling mechanism of singlet oxygen and electron transfer. <b>2023</b> , 445, 130580	0
42	Singlet oxygen dominated core-shell Co nanoparticle to synergistically degrade methylene blue through efficient activation of peroxymonosulfate. <b>2023</b> , 308, 122849	0
41	Significant roles of surface functional groups and Fe/Co redox reactions on peroxymonosulfate activation by hydrochar-supported cobalt ferrite for simultaneous degradation of monochlorobenzene and p-chloroaniline. <b>2023</b> , 445, 130588	0
40	Efficient degradation of Bisphenol A by Fe <sup>3+</sup> /Fe <sup>2+</sup> cycle activating persulfate with the assistance of biochar-supported MoO <sub>2</sub> . <b>2022</b> , 140381	1
39	Efficient Single-Atom Fe-Catalyzed Fenton-like Reaction Involving Peroxymonosulfate for BPA Degradation by High-Valent Fe(IV)=O. <b>2022</b> , 2, 2698-2705	0
38	Flower-like bentonite-based Co <sub>3</sub> O <sub>4</sub> with oxygen vacancies-rich as highly efficient peroxymonosulfate activator for lomefloxacin hydrochloride degradation. <b>2022</b> , 140673	0
37	Solar-initiated continuous electron injection to promote Fe <sup>3+</sup> /Fe <sup>2+</sup> catalytic cycle in tourmaline/g-C <sub>3</sub> N <sub>4</sub> composite system for enhanced PMS activation. <b>2022</b> , 123806	0

- 36 Activation of peroxymonosulfate by catalysts derived from water treatment plant sludge for the simultaneous removal of Disperse Blue 56 and phosphates. ○
- 35 MoS<sub>4</sub>-LDH: A dual centre Fe-based layered double hydroxide catalyst for efficient atrazine removal and peroxymonosulfate activation. **2022**, 141161 ○
- 34 Improvement of Carbonyl Groups and Surface Defects in Carbon Nanotubes to Activate Peroxydisulfate for Tetracycline Degradation. **2023**, 13, 216 ○
- 33 Novel magnetic graphoxide/biochar composite derived from tea for multiple SAs and QNs antibiotics removal in water. ○
- 32 Bisphenol A removal in treated wastewater matrix at neutral pH using magnetic graphite intercalation compounds as persulfate activators. ○
- 31 Two birds with one stone: Cobalt-doping induces to enhanced piezoelectric property and persulfate activation ability of ZnO nanorods for efficient water purification. **2023**, 107, 108173 1
- 30 Facet-Dependent Catalytic Activity of MnFe Prussian Blue Analogues in Peroxymonosulfate-Activated System for Efficient Degradation of Acetamiprid. **2023**, 3, 598-607 ○
- 29 Persulfate activation by sludge-derived biochar for efficient degradation of 2,4-dichlorophenol: performance and mechanism. ○
- 28 Evolution of Singlet Oxygen in Peroxymonosulfate Activation: A Review. ○
- 27 Effects of adsorption characteristics of carbocatalysts on persulfate-based advanced oxidation processes: organic removal mechanisms and optimization strategies. **2023**, 142801 ○
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- 25 Enhanced electrokinetic remediation by magnetic induction for the treatment of co-contaminated soil. **2023**, 452, 131264 ○
- 24 Enhanced degradation of tetracycline under natural sunlight through the synergistic effect of Ag<sub>3</sub>PO<sub>4</sub>/MIL-101(Fe) photocatalysis and Fenton catalysis: Mechanism, pathway, and toxicity assessment. **2023**, 449, 131024 ○
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- 22 Comparative assessment of biochars from multiple sources based on persulfate activation capability: Role of iron component in enhancing thermal treatment effect on carbocatalytic performance. **2023**, 330, 122647 ○
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- 20 Degradation efficiency and mechanism of 2,2',4,4'-tetrabromodiphenyl ether (BDE-47) by thermally activated persulfate system. **2023**, 325, 138396 ○
- 19 Trade-off effect of dissolved organic matter on degradation and transformation of micropollutants: A review in water decontamination. **2023**, 450, 130996 ○

- 18 Carbonyl and defect of metal-free char trigger electron transfer and O<sub>2</sub><sup>•-</sup> in persulfate activation for Aniline aerofloat degradation. **2023**, 231, 119659 ○
- 17 Enhanced degradation of sulfamethoxazole by activation of peroxydisulfate with red mud modified biochar: Synergistic effect between adsorption and nonradical activation. **2023**, 460, 141578 ○
- 16 Kinetics and mechanism studies of efficient degradation of 1-hexyl-3-methylimidazolium by zero-valent iron activated persulfate. **2023**, 460, 141575 ○
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- 14 CaO<sub>2</sub>-based tablet for effective and green membrane cleaning without additional catalysts. **2023**, 672, 121466 ○
- 13 Study on persulfate activated by Ce-modified tea waste biochar to degrade tetracycline. **2023**, 30, 49632-49643 ○
- 12 Non-metal activated peroxydisulfate by straw biochar for tetracycline hydrochloride oxidative degradation: catalytic activity and mechanism. **2023**, 30, 50815-50828 ○
- 11 Density Functional Theory and Machine Learning-Based Quantitative Structure-Activity Relationship Models Enabling Prediction of Contaminant Degradation Performance with Heterogeneous Peroxymonosulfate Treatments. **2023**, 57, 3951-3961 ○
- 10 Catalytic activation of peroxymonosulfate by Mn/N co-doped porous carbon for effective phenol degradation: crucial role of non-radical pathways. **2023**, 47, 5420-5430 ○
- 9 A review of advanced oxidation process towards organic pollutants and its potential application in fracturing flowback fluid. **2023**, 30, 45643-45676 ○
- 8 Natural coal gangue as a stable catalyst to activate persulfate: tetracycline hydrochloride degradation and its explored mechanism. **2023**, 47, 6685-6693 ○
- 7 Visible light-driven NH<sub>2</sub>Cl activation by g-C<sub>3</sub>N<sub>4</sub> photocatalysis producing reactive nitrogen species to degrade bisphenol A. **2023**, 235, 119889 ○
- 6 Effective degradation of tetracycline via recyclable free-standing three-dimensional copper-based graphene as a persulfate catalyst. ○
- 5 The debatable role of singlet oxygen in persulfate-based advanced oxidation processes. **2023**, 235, 119925 ○
- 4 Removal of Methylene Blue using Heterogeneous Fenton Process with Fe Impregnated Kepok Banana (Musa acuminata L.) Peel Activated Carbon as Catalyst. **2023**, 110715 ○
- 3 Oxygen vacancies-enriched Fe-Cu bimetallic minerals-based magnetic biochar activated peroxydisulfate for durable sulfonamides degradation: pH-dependence adsorption and singlet oxygen evolution mechanism. **2023**, 317, 123866 ○
- 2 Degradation bensulfuron-methyl by magnetic CoFe alloy@N-doped graphitized carbon derived from CoFe<sub>2</sub>O<sub>4</sub> activated by peroxymonosulfate. **2023**, 466, 143158 ○
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