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Identification of Sulfate and Hydroxyl Radicals in Thermally Activated Persulfate

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921	Microwave-Assisted COD Removal from Landfill Leachate by Hydrogen Peroxide, Peroxymonosulfate and Persulfate. <b>2010</b> ,		4
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761	Improvement of phenol photodegradation efficiency by a combined g-C3N4/Fe(III)/persulfate system. <b>2016</b> , 148, 34-40	53
760	Removal of rhodamine B from a water medium using hydroxyl and sulphate radicals generated by iron loaded activated carbon. <b>2016</b> , 6, 5330-5340	76
759	Granular activated carbon supported iron as a heterogeneous persulfate catalyst for the pretreatment of mature landfill leachate. <b>2016</b> , 6, 987-994	29
75 <sup>8</sup>	Removal of carbamazepine from aqueous solution using sono-activated persulfate process. <b>2016</b> , 29, 156-62	104
757	Activated persulfate for organic chemical degradation: A review. <b>2016</b> , 151, 178-88	849
756	Degradation of trichloroethylene by activated persulfate using a reduced graphene oxide supported magnetite nanoparticle. <b>2016</b> , 295, 309-316	84
755	Visible light enhanced heterogeneous photo-degradation of Orange II by zinc ferrite (ZnFe2O4) catalyst with the assistance of persulfate. <b>2016</b> , 165, 42-52	63
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753	Study on the removal of nitric oxide (NO) by dual oxidant (H2O2/S2O82) system. <b>2016</b> , 145, 133-140	38
75 <sup>2</sup>	Efficient transformation of DDT by peroxymonosulfate activated with cobalt in aqueous systems: Kinetics, products, and reactive species identification. <b>2016</b> , 148, 68-76	54
751	Facile preparation of S/Fe composites as an effective peroxydisulfate activator for RhB degradation. <b>2016</b> , 163, 145-152	42
750	Selective decolorization of cationic dyes by peroxymonosulfate: non-radical mechanism and effect of chloride. <b>2016</b> , 6, 866-871	38
749	Effect of inorganic anions and oxidizing agents on electrochemical oxidation of methyl orange, malachite green and 2,4-dinitrophenol. <b>2016</b> , 762, 66-72	11
748	Mechanisms of hydroxyl radical production from abiotic oxidation of pyrite under acidic conditions. <b>2016</b> , 172, 444-457	120
747	Oxidative degradation of diclofenac by thermally activated persulfate: implication for ISCO. <b>2016</b> , 23, 3824-33	57
746	The impact of peroxydisulphate and peroxymonosulphate on disintegration and settleability of activated sludge. <b>2016</b> , 37, 1296-304	18

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743	Insights into the synergy of zero-valent iron and copper oxide in persulfate oxidation of Orange G solutions. <b>2016</b> , 42, 481-497	15
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741	In Situ Photochemical Activation of Sulfate for Enhanced Degradation of Organic Pollutants in Water. <b>2017</b> , 51, 2339-2346	100
740	Chemical oxidation of benzene and trichloroethylene by a combination of peroxymonosulfate and permanganate linked by in-situ generated colloidal/amorphous MnO2. <b>2017</b> , 313, 815-825	35
739	Denitration and renitration processes in sulfate radical-mediated degradation of nitrobenzene. <b>2017</b> , 315, 591-597	28
738	Fenton-like degradation of 2,4-dichlorophenol using calcium peroxide particles: performance and mechanisms. <b>2017</b> , 7, 4563-4571	33
737	Degradation of trichloroethene by nanoscale zero-valent iron (nZVI) and nZVI activated persulfate in the absence and presence of EDTA. <b>2017</b> , 316, 410-418	71
736	Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfate-Iodide Metal-Free Oxidation: Role of Iodine Atoms. <b>2017</b> , 51, 2312-2320	61
735	Kinetics and Mechanism of Ultrasonic Activation of Persulfate: An in Situ EPR Spin Trapping Study. <b>2017</b> , 51, 3410-3417	212
734	Analysis on the removal of ammonia nitrogen using peroxymonosulfate activated by nanoparticulate zero-valent iron. <b>2017</b> , 71, 1497-1505	17
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732	Mechanistic investigation of visible light driven novel La2CuO4/CeO2/rGO ternary hybrid nanocomposites for enhanced photocatalytic performance and antibacterial activity. <b>2017</b> , 340, 96-108	51
731	Catalytic oxidation of 4-chlorophenol on in-situ sulfur-doped activated carbon with sulfate radicals. <b>2017</b> , 179, 257-264	45
730	Direct oxidation of the C(sp)-C(sp) bond from benzyltrimethylsilanes to phenols. <b>2017</b> , 53, 5291-5293	7
729	Oxidative degradation of tetramethylammonium hydroxide (TMAH) by UV/persulfate and associated acute toxicity assessment. <b>2017</b> , 52, 930-937	6
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727	Surface-bound sulfate radical-dominated degradation of 1,4-dioxane by alumina-supported palladium (Pd/AlO) catalyzed peroxymonosulfate. <b>2017</b> , 120, 12-21	108
726	Activation of peroxydisulfate by gasIlquid pulsed discharge plasma to enhance the degradation of p-nitrophenol. <b>2017</b> , 19, 064017	12
725	Oxidation of benzoic acid by heat-activated persulfate: Effect of temperature on transformation pathway and product distribution. <b>2017</b> , 120, 43-51	107
724	Mechanistic investigation on radical-induced construction of oxindoles: radical versus electrophilic cyclization. <b>2017</b> , 7, 30984-30989	1
723	Efficient oxidative degradation of chlorophenols by using magnetic surface carboxylated Cu0/Fe3O4 nanocomposites in a wide pH range. <b>2017</b> , 5, 2681-2690	21
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718	Degradation kinetics of tetracycline in aqueous solutions using peroxydisulfate activated by ultrasound irradiation: Effect of radical scavenger and water matrix. <b>2017</b> , 241, 704-714	91
717	Cobalt super-microparticles anchored on nitrogen-doped graphene for aniline oxidation based on sulfate radicals. <b>2017</b> , 601-602, 99-108	27
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715	Degradation of highly consumed fluoroquinolones, penicillins and cephalosporins in distilled water and simulated hospital wastewater by UV and UV/persulfate processes. <b>2017</b> , 122, 128-138	95
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713	LiCoPO4 (LCP) as an effective peroxymonosulfate activator for degradation of diethyl phthalate in aqueous solution without controlling pH: Efficiency, stability and mechanism. <b>2017</b> , 315, 304-314	31
712	Efficient degradation of 2,4-dichlorophenoxyacetic acid by peroxymonosulfate/magnetic copper ferrite nanoparticles/ozone: A novel combination of advanced oxidation processes. <b>2017</b> , 320, 436-447	172
711	Excellent performance of cobalt-impregnated activated carbon in peroxymonosulfate activation for acid orange 7 oxidation. <b>2017</b> , 24, 9651-9661	33
710	Aqueous phase degradation of methyl paraben using UV-activated persulfate method. <b>2017</b> , 321, 11-19	102

709	Optimization of wet denitration by dual oxidant (H 2 O 2 /S 2 O 8 2l) advanced oxidation process. <b>2017</b> , 156, 82-89	14
708	Degradation of 2,4-dichlorophenoxyacetic acid in water by persulfate activated with FeS (mackinawite). <b>2017</b> , 313, 498-507	113
707	Synergetic degradation of Acid Orange 7 (AO7) dye by DBD plasma and persulfate. <b>2017</b> , 311, 378-384	126
706	Heat-activated persulfate oxidation of methyl- and ethyl-parabens: Effect, kinetics, and mechanism. <b>2017</b> , 168, 1628-1636	96
705	Persulfate-assisted photodegradation of diethylstilbestrol using monoclinic BiVO under visible-light irradiation. <b>2017</b> , 24, 3739-3747	19
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698	Comparison of UV/H2O2 and UV/PS processes for the degradation of thiamphenicol in aqueous solution. <b>2017</b> , 348, 79-88	39
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695	Harnessing no-photon exciton generation chemistry to engineer semiconductor nanostructures. <b>2017</b> , 7, 10599	11
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690	Persulfate/electrochemical/FeCl 2 system for the degradation of phenol adsorbed on granular activated carbon and adsorbent regeneration. <b>2017</b> , 165, 637-644	18
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687	Compatibility of surfactants with activated-persulfate for the selective oxidation of PAH in groundwater remediation. <b>2017</b> , 5, 6098-6106	28
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685	Heterogeneous degradation of refractory pollutants by peroxymonosulfate activated by CoOx-doped ordered mesoporous carbon. <b>2017</b> , 328, 1112-1121	140
684	Investigation of the synergism of hybrid advanced oxidation processes with an oxidation agent to degrade three dyes. <b>2017</b> , 43, 2587-2601	8
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682	Efficient degradation of paracetamol with nanoscaled magnetic CoFe 2 O 4 and MnFe 2 O 4 as a heterogeneous catalyst of peroxymonosulfate. <b>2017</b> , 175, 47-57	214
681	Insight into reactive oxygen species in persulfate activation with copper oxide: Activated persulfate and trace radicals. <b>2017</b> , 313, 1023-1032	135
680	Application of peroxymonosulfate and its activation methods for degradation of environmental organic pollutants: Review. <b>2017</b> , 310, 41-62	1109
679	Ferrous ion-activated persulphate process for landfill leachate treatment: removal of organic load, phenolic micropollutants and nitrogen. <b>2017</b> , 38, 1223-1231	20
678	Catalytic degradation of 2-phenylbenzimidazole-5-sulfonic acid by peroxymonosulfate activated with nitrogen and sulfur co-doped CNTs-COOH loaded CuFe2O4. <b>2017</b> , 307, 95-104	69
677	Activation of persulfate with vanadium species for PCBs degradation: A mechanistic study. <b>2017</b> , 202, 1-11	138
676	Elimination of sulfaclozine from water with SO4lfadicals: Evaluation of different persulfate activation methods. <b>2017</b> , 201, 573-581	95
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670	Mechanism insight of degradation of norfloxacin by magnetite nanoparticles activated persulfate: Identification of radicals and degradation pathway. <b>2017</b> , 308, 330-339	193
669	Visible-light-driven photocatalytic activation of peroxymonosulfate by Cu(OH)PO for effective decontamination. <b>2018</b> , 201, 197-205	28
668	Coupling electrooxidation and Oxone for degradation of 2,4-Dichlorophenoxyacetic acid (2,4-D) from aqueous solutions. <b>2018</b> , 22, 203-209	39
667	Green electrochemical modification of RVC foam electrode and improved HO electrogeneration by applying pulsed current for pollutant removal. <b>2018</b> , 25, 6015-6025	21
666	Degradation of selected emerging contaminants by UV-activated persulfate: Kinetics and influence of matrix constituents. <b>2018</b> , 201, 41-50	43
665	Degradation of ethyl paraben in aqueous medium using advanced oxidation processes: Efficiency evaluation of UV-C supported oxidants. <b>2018</b> , 180, 505-513	56
664	Persulfate Reaction in a Hair-Bleaching Formula: Unveiling the Unconventional Reactivity of 1,13-Diamino-4,7,10-Trioxatridecane. <b>2018</b> , 7, 319-322	3
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662	Carbon and hydrogen isotope fractionation of phthalate esters during degradation by sulfate and hydroxyl radicals. <b>2018</b> , 347, 111-118	25
661	Degradation mechanism and kinetic modeling for UV/peroxydisulfate treatment of penicillin antibiotics. <b>2018</b> , 341, 93-101	33
660	Unraveling the catalyzing behaviors of different iron species (Fe vs. Fe) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. <b>2018</b> , 134, 101-114	139
659	Insights into heterogeneous catalysis of peroxymonosulfate activation by boron-doped ordered mesoporous carbon. <b>2018</b> , 135, 238-247	104
658	Simultaneous catalytic degradation of 2,4-D and MCPA herbicides using sulfate radical-based heterogeneous oxidation over persulfate activated by natural hematite (Fe 2 O 3 /PS). <b>2018</b> , 117, 49-59	67
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656	Degradation of the UV-filter benzophenone-3 in aqueous solution using persulfate activated by heat, metal ions and light. <b>2018</b> , 196, 95-104	97

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650	Contribution of alcohol radicals to contaminant degradation in quenching studies of persulfate activation process. <b>2018</b> , 139, 66-73	83
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647	Metal-free activation of persulfate by cubic mesoporous carbons for catalytic oxidation via radical and nonradical processes. <b>2018</b> , 307, 140-146	91
646	Phenol abatement using persulfate activated by nZVI, HO and NaOH and development of a kinetic model for alkaline activation. <b>2018</b> , 39, 35-43	16
645	Degradation of atenolol via heterogeneous activation of persulfate by using BiOCl@FeO catalyst under simulated solar light irradiation. <b>2018</b> , 25, 693-703	8
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643	Impacts of inorganic anions and natural organic matter on thermally activated persulfate oxidation of BTEX in water. <b>2018</b> , 190, 296-306	109
642	Trimethoprim degradation by Fenton and Fe(II)-activated persulfate processes. 2018, 191, 97-105	67
641	Roles of hydroxyl and sulfate radicals in degradation of trichloroethene by persulfate activated with Fe and zero-valent iron: Insights from carbon isotope fractionation. <b>2018</b> , 344, 98-103	25
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639	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <b>2018</b> , 220, 626-634	274
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637	Synthesis of iron-based metal-organic framework MIL-53 as an efficient catalyst to activate persulfate for the degradation of Orange G in aqueous solution. <b>2018</b> , 549, 82-92	87
636	Ultrafast activation efficiency of three peroxides by Fe78Si9B13 metallic glass under photo-enhanced catalytic oxidation: A comparative study. <b>2018</b> , 221, 108-118	86
635	Degradation of atrazine by ZnxCu1NFe2O4 nanomaterial-catalyzed sulfite under UVNis light irradiation: Green strategy to generate SO4D2018, 221, 380-392	141
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630	Activation of persulfate (PS) and peroxymonosulfate (PMS) and application for the degradation of emerging contaminants. <b>2018</b> , 334, 1502-1517	1422
629	Activation of peroxymonosulfate using drinking water treatment residuals for the degradation of atrazine. <b>2018</b> , 344, 1220-1228	64
628	Effective degradation of primary color direct azo dyes using Fe aggregates-activated persulfate process. <b>2018</b> , 206, 565-576	30
627	Degradation of 2,4-dichlorophenol by activating persulfate and peroxomonosulfate using micron or nanoscale zero-valent copper. <b>2018</b> , 344, 1209-1219	120
626	Feasibility of using nanoscale zero-valent iron and persulfate to degrade sulfamethazine in aqueous solutions. <b>2018</b> , 194, 388-395	40
625	Kinetic and mechanistic investigations of the degradation of propranolol in heat activated persulfate process <b>2018</b> , 8, 41163-41171	9
624	Tripterine alleviates lipopolysaccharide-induced airway epithelial barrier dysfunction through suppressing the Hippo pathway <b>2018</b> , 8, 39696-39702	1
623	Temperature-dependent evolution of hydroxyl radicals from peroxymonosulfate activation over nitrogen-modified carbon nanotubes. <b>2018</b> , 18, e00082	7
622	Mechanisms of Interaction between Persulfate and Soil Constituents: Activation, Free Radical Formation, Conversion, and Identification. <b>2018</b> , 52, 14352-14361	57
621	Thermo-activated peroxydisulfate oxidation of indomethacin: Kinetics study and influences of co-existing substances. <b>2018</b> , 212, 1067-1075	15
620	Non-activated peroxymonosulfate oxidation of sulfonamide antibiotics in water: Kinetics, mechanisms, and implications for water treatment. <b>2018</b> , 147, 82-90	74

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618	Catalytic Degradation of Diatrizoate by Persulfate Activation with Peanut Shell Biochar-Supported Nano Zero-Valent Iron in Aqueous Solution. <b>2018</b> , 15,	17
617	Is Sulfate Radical Really Generated from Peroxydisulfate Activated by Iron(II) for Environmental Decontamination?. <b>2018</b> , 52, 11276-11284	216
616	Furfural degradation through heat-activated persulfate: Impacts of simulated brine and elevated pressures. <b>2018</b> , 353, 727-735	19
615	Experimental evaluation of Reactive Yellow 17 degradation using UV light and iron ions activated peroxydisulfate: Efficiency and kinetic model. <b>2018</b> , 30, 157-165	5
614	Assessment of reaction intermediates of gamma radiation-induced degradation of ofloxacin in aqueous solution. <b>2018</b> , 208, 606-613	36
613	Ultrasound-assisted heterogeneous activation of persulfate by nano zero-valent iron (nZVI) for the propranolol degradation in water. <b>2018</b> , 49, 33-40	76
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611	Synthetic magnetite, maghemite, and haematite activation of persulphate for orange G degradation. <b>2018</b> , 215, 73-85	10
610	Degradation Kinetic and Remediation Effectiveness of 1,4-Dioxane-Contaminated Groundwater by a Sono-Activated Persulfate Process. <b>2018</b> , 144, 04018098	7
609	Efficacy of activated persulfate in inactivating Escherichia coli O157:H7 and Listeria monocytogenes. <b>2018</b> , 284, 40-47	18
608	Persulfate initiated free-radical polymerization of itaconic acid: Kinetics, end-groups and side products. <b>2018</b> , 106, 63-71	14
607	Persulfate oxidizing system for biomass pretreatment and process optimization. <b>2018</b> , 116, 249-258	16
606	Reductive Hexachloroethane Degradation by SO with Thermal Activation of Persulfate under Anaerobic Conditions. <b>2018</b> , 52, 8548-8557	72
605	Electrochemical activation of sulfate by BDD anode in basic medium for efficient removal of organic pollutants. <b>2018</b> , 210, 516-523	68
604	Degradation of hydraulic fracturing additive 2-butoxyethanol using heat activated persulfate in the presence of shale rock. <b>2018</b> , 206, 398-404	7
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602	Carbon and hydrogen stable isotope analysis for characterizing the chemical degradation of tributyl phosphate. <b>2018</b> , 212, 133-142	10

601	Enhanced superoxide radical production for ofloxacin removal via persulfate activation with Cu-Fe oxide. <b>2018</b> , 354, 473-480	95
600	Mechanisms and toxicity evaluation of the degradation of sulfamethoxazole by MPUV/PMS process. <b>2018</b> , 212, 365-375	35
599	Feasibility, mechanisms, and optimisation of organic pollutant degradation by thermally activated persulphate. <b>2018</b> , 136, 304-314	21
598	Enhancement of ultrasound on oxidation of AO7 by nZVC peroxomonosulfate combined system. <b>2018</b> , jws2018015	1
597	Facile preparation of porous Mn/Fe3O4 cubes as peroxymonosulfate activating catalyst for effective bisphenol A degradation. <b>2019</b> , 376, 119193	133
596	Degradation of isopropyl alcohol using UV and persulfate in a large reactor. <b>2019</b> , 209, 88-93	11
595	Cobalt-impregnated biochar (Co-SCG) for heterogeneous activation of peroxymonosulfate for removal of tetracycline in water. <b>2019</b> , 292, 121954	67
594	Comparative assessment of a foam-based method for ISCO of coal tar contaminated unsaturated soils. <b>2019</b> , 7, 103346	6
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592	Study of the atenolol degradation using a Nb/BDD electrode in a filter-press reactor. <b>2019</b> , 236, 124318	6
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414	Synergistic degradation of acid blue 113 dye in a thermally activated persulfate (TAP)/ZnO-GAC oxidation system: Degradation pathway and application for real textile wastewater. <b>2020</b> , 247, 116931	31
413	Improved photocatalytic activity of Z-scheme Bi2O3/Bi2WO6 nanocomposites from band bending of p-n heterojunction. <b>2020</b> , 22, 1	6
412	Slow-release persulfate candle-assisted electrochemical oxidation of 2-methylnaphthalene: Effects of chloride, sulfate, and bicarbonate. <b>2020</b> , 400, 123196	4
411	Intensified peroxydisulfate/microparticles-zero valent iron process through aeration for degradation of organic pollutants: Kinetic studies, mechanism and effect of anions. <b>2020</b> , 36, 101321	26
410	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
409	Degradation of thiocyanate by electrochemical oxidation process in coke oven wastewater: Role of operative parameters and mechanistic study. <b>2020</b> , 255, 127014	16
408	Degradation of organic pollutants by Fe/N co-doped biochar via peroxymonosulfate activation: Synthesis, performance, mechanism and its potential for practical application. <b>2020</b> , 400, 125870	63
407	Insight into the mechanism of CuO activated persulfate with the assistance of bicarbonate for removing organic pollutants. <b>2020</b> , 37, 101403	4
406	Efficient degradation of naproxen by persulfate activated with zero-valent iron: performance, kinetic and degradation pathways. <b>2020</b> , 81, 2078-2091	3
405	Thermally activated persulfate for the chemical oxidation of chlorinated organic compounds in groundwater. <b>2020</b> , 261, 110240	19
404	Sulfate radical-based oxidation of an alcohol ethoxylate (Brij30) by the PS/UV-C process. <b>2020</b> , 81, 383-394	

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403	New insight into waste activated sludge acetogenesis triggered by coupling sulfite/ferrate oxidation with sulfate reduction-mediated syntrophic consortia. <b>2020</b> , 400, 125885	13
402	A Comparative Study on Oxidation of Acidic Red 18 by Persulfate with Ferrous and Ferric Ions. <b>2020</b> , 10, 698	2
401	Open Ni site coupled with SO42- functionality to prompt the radical interconversion of OH៤-₲O4□ exploited to decompose refractory pollutants. <b>2020</b> , 400, 125971	7
400	UV light-assisted persulfate activation by Cu0-Cu2O for the degradation of sulfamerazine. <b>2020</b> , 251, 117321	23
399	Efficient degradation of methyl orange in water via both radical and non-radical pathways using Fe-Co bimetal-doped MCM-41 as peroxymonosulfate activator. <b>2020</b> , 402, 125881	48
398	Fabrication of reactive flat-sheet ceramic membranes for oxidative degradation of ofloxacin by peroxymonosulfate. <b>2020</b> , 611, 118302	16
397	Abatement of dichloromethane using persulfate activated by alkali: A kinetic study. 2020, 241, 116679	16
396	Removal of Ketoprofen from Water by Sono-Activated Persulfate Oxidation. <b>2020</b> , 231, 1	1
395	Reactive species in advanced oxidation processes: Formation, identification and reaction mechanism. <b>2020</b> , 401, 126158	254
394	Oxidative degradation of Rhodamine B by Ag@CuO nanocomposite activated persulfate. <b>2020</b> , 267, 116479	11
393	Effect of various electrolytes and other wastewater constituents on the degradation of volatile organic compounds in aqueous solution by pulsed power plasma technology. <b>2020</b> , 6, 2209-2222	3
392	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. <b>2020</b> , 54, 3064-3081	605
391	Degradation of 3,5-dichlorophenol by UV-C photolysis and UV-C-activated persulfate oxidation process in pure water and simulated tertiary treated urban wastewater. <b>2021</b> , 42, 3877-3888	6
390	Transformation of 6:2 Fluorotelomer Sulfonate by Cobalt(II)-Activated Peroxymonosulfate. <b>2020</b> , 54, 4631-4640	20
389	Efficient removal of trichloroethene in oxidative environment by anchoring nano FeS on reduced graphene oxide supported nZVI catalyst: The role of FeS on oxidant decomposition and iron leakage. <b>2020</b> , 392, 122328	18
388	Facile Synthesis of High-Performance Nitrogen-Doped Hierarchically Porous Carbon for Catalytic Oxidation. <b>2020</b> , 8, 4236-4243	31
387	Adsorbable organic halogens formed during treatment of ClEtontaining wastewater by sulfate and hydroxyl radical-based advanced oxidation processes. <b>2020</b> , 389, 124457	8
386	Novel magnetic biochar as an activator for peroxymonosulfate to degrade bisphenol A: Emphasizing the synergistic effect between graphitized structure and CoFe2O4. <b>2020</b> , 387, 124094	58

385	Homogeneous catalytic activation of peroxymonosulfate and heterogeneous reductive regeneration of Co by MoS: The pivotal role of pH. <b>2020</b> , 712, 136447	16
384	Removal of triphenyl phosphate by nanoscale zerovalent iron (nZVI) activated bisulfite: Performance, surface reaction mechanism and sulfate radical-mediated degradation pathway. <b>2020</b> , 260, 113983	16
383	Control of ultrafiltration membrane fouling during the recycling of sludge water based on Fe(II)-activated peroxymonosulfate pretreatment. <b>2020</b> , 246, 125840	6
382	Atmospheric pressure plasma jet-assisted copolymerization of sulfobetaine methacrylate and acrylic acid. <b>2020</b> , 17, 1900209	7
381	Catalytic degradation of methylene blue through activation of bisulfite with CoO nanoparticles. <b>2020</b> , 239, 116561	17
380	Visible light induced acceleration of Fe(III)/Fe(II) cycles for enhancing phthalate degradation in C60 fullerenol modified Fe(III)/peroxymonosulfate process. <b>2020</b> , 387, 124126	19
379	Metallic Active Sites on MoO(110) Surface to Catalyze Advanced Oxidation Processes for Efficient Pollutant Removal. <b>2020</b> , 23, 100861	53
378	Elucidating sulfate radical-mediated disinfection profiles and mechanisms of Escherichia coli and Enterococcus faecalis in municipal wastewater. <b>2020</b> , 173, 115552	37
377	Aroylation of Electron-Rich Pyrroles under Minisci Reaction Conditions. <b>2020</b> , 22, 1442-1447	21
376	Facet- and defect-dependent activity of perovskites in catalytic evolution of sulfate radicals. <b>2020</b> , 272, 118972	48
375	Trichloroethene degradation by nanoscale CaO2 activated with Fe(II)/FeS: The role of FeS and the synergistic activation mechanism of Fe(II)/FeS. <b>2020</b> , 394, 124830	19
374	Ferrous metal-organic frameworks with strong electron-donating properties for persulfate activation to effectively degrade aqueous sulfamethoxazole. <b>2020</b> , 394, 125044-125044	44
373	Hydroxyl and sulfate radical-based oxidation of RhB dye in UV/HO and UV/persulfate systems: Kinetics, mechanisms, and comparison. <b>2020</b> , 253, 126655	48
372	Formation of chloronitrophenols upon sulfate radical-based oxidation of 2-chlorophenol in the presence of nitrite. <b>2020</b> , 261, 114242	13
371	Thallium(I) Oxidation by Permanganate and Chlorine: Kinetics and Manganese Dioxide Catalysis. <b>2020</b> , 54, 7205-7216	8
370	New insight into the mechanism of peroxymonosulfate activation by nanoscaled lead-based spinel for organic matters degradation: A singlet oxygen-dominated oxidation process. <b>2020</b> , 572, 318-327	15
369	Immobilization of nonisolated BiPO4 particles onto PDMS/SiO2 composite for the photocatalytic degradation of dye pollutants. <b>2020</b> , 17, 4061-4074	1
368	Sulfate radical mediated degradation of 5-halogenosalicylic acids: Phenoxyl radical transformation pathways. <b>2020</b> , 394, 124839	7

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367	Highly efficient removal of p-arsanilic acid with Fe(II)/peroxydisulfate under near-neutral conditions. <b>2020</b> , 177, 115752	24
366	Degradation of benzotriazole by sulfate radical-based advanced oxidation process. <b>2021</b> , 42, 238-247	10
365	Dual radicals-enhanced wet chemical oxidation of non-biodegradable chemicals. <b>2021</b> , 401, 123746	2
364	Bifunctional BiOCl/MIL-100(Fe) composites toward photocatalytic Cr(VI) sequestration and activation of persulfate for bisphenol A degradation. <b>2021</b> , 752, 141901	55
363	Treatment of dyeing wastewater by combined sulfate radical based electrochemical advanced oxidation and electrocoagulation processes. <b>2021</b> , 254, 117570	55
362	Rapid DDTs degradation by thermally activated persulfate in soil under aerobic and anaerobic conditions: Reductive radicals vs. oxidative radicals. <b>2021</b> , 402, 123557	12
361	Benzophenone-3 degradation via UV/HO and UV/persulfate reactions. <b>2021</b> , 403, 123591	28
360	Degradation of highly chlorinated pesticide, lindane, in water using UV/persulfate: kinetics and mechanism, toxicity evaluation, and synergism by HO. <b>2021</b> , 402, 123558	18
359	A study on advanced oxidation mechanism of MnCo2O4/g-C3N4 degradation of nitrobenzene: Sacrificial oxidation and radical oxidation. <b>2021</b> , 403, 126400	33
358	Graphene-like carbon sheet-supported nZVI for efficient atrazine oxidation degradation by persulfate activation. <b>2021</b> , 403, 126309	32
357	A critical review on the mechanisms of persulfate activation by iron-based materials: Clarifying some ambiguity and controversies. <b>2021</b> , 407, 127078	33
356	The addition of biochar as a sustainable strategy for the remediation of PAH-contaminated sediments. <b>2021</b> , 263, 128274	31
355	A review of the recent advances on the treatment of industrial wastewaters by Sulfate Radical-based Advanced Oxidation Processes (SR-AOPs). <b>2021</b> , 406, 127083	249
354	Efficient transformation of DDT with peroxymonosulfate activation by different crystallographic MnO. <b>2021</b> , 759, 142864	13
353	Thermal removal of partial nitrogen atoms in N-doped graphene for enhanced catalytic oxidation. <b>2021</b> , 585, 640-648	9
352	Kinetic degradation of anti-inflammatory drugs in ozone combined free active chlorine system. <b>2021</b> , 256, 117767	3
351	Endogenously activated persulfate by non-thermal plasma for Cu(II)-EDTA decomplexation: Synergistic effect and mechanisms. <b>2021</b> , 406, 126774	35
350	Degradation of aqueous atrazine using persulfate activated by electrochemical plasma coupling with microbubbles: removal mechanisms and potential applications. <b>2021</b> , 403, 124087	21

349	Manganese doped iron-carbon composite for synergistic persulfate activation: Reactivity, stability, and mechanism. <b>2021</b> , 405, 124228	18
348	Use of mine waste for H2O2-assisted heterogeneous Fenton-like degradation of tetracycline by natural pyrite nanoparticles: Catalyst characterization, degradation mechanism, operational parameters and cytotoxicity assessment. <b>2021</b> , 291, 125235	16
347	S edge/center-selectively doped graphene oxide for bisphenol A electro-degradation: Preparation, efficiency and mechanism. <b>2021</b> , 420, 127669	4
346	Enhanced degradation of triclosan by gamma radiation with addition of persulfate. <b>2021</b> , 180, 109273	1
345	Catalytic Oxidation of Dyeing Wastewater by Copper Oxide Activating Persulfate: Performance, Mechanism and Application. <b>2021</b> , 15, 1-10	5
344	Thermally activated persulfate for gaseous p-xylene removal: Process optimization, mechanism investigation, and pathway analysis. <b>2021</b> , 421, 127728	2
343	Heterogeneous activation of persulfate by activated carbon supported iron for efficient amoxicillin degradation. <b>2021</b> , 21, 101259	5
342	Uncertainty and misinterpretation over identification, quantification and transformation of reactive species generated in catalytic oxidation processes: A review. <b>2021</b> , 408, 124436	65
341	From the accelerated production of <b>D</b> H radicals to the crosslinking of polyvinyl alcohol: The role of free radicals initiated by persulfates. <b>2021</b> , 285, 119763	3
340	Interrelated effects of soils and compounds on persulfate oxidation of petroleum hydrocarbons in soils. <b>2021</b> , 408, 124845	5
339	The overlooked oxidative dissolution of silver sulfide nanoparticles by thermal activation of persulfate: Processes, mechanisms, and influencing factors. <b>2021</b> , 760, 144504	4
338	Activation of persulfate by nanoscale zero-valent iron loaded porous graphitized biochar for the removal of 17Eestradiol: Synthesis, performance and mechanism. <b>2021</b> , 588, 776-786	20
337	Enhanced synergistic catalysis of novel Ag2O/CuO nanosheets under visible light illumination for the photodecomposition of three dyes. <b>2021</b> , 9, 104824	5
336	Targeted degradation of dimethyl phthalate by activating persulfate using molecularly imprinted Fe-MOF-74. <b>2021</b> , 270, 128620	15
335	Synergistic heat/UV activated persulfate for the treatment of nanofiltration concentrated leachate. <b>2021</b> , 208, 111522	8
334	Oxidative removal of antibiotic resistant E. coli by sulfidated zero-valent iron: Homogeneous vs heterogeneous activation. <b>2021</b> , 408, 124411	4
333	Degradation of petroleum hydrocarbons in soil via advanced oxidation process using peroxymonosulfate activated by nanoscale zero-valent iron. <b>2021</b> , 270, 128627	13
332	Trichloroethylene degradation by PVA-coated calcium peroxide nanoparticles in Fe(II)-based catalytic systems: enhanced performance by citric acid and nanoscale iron sulfide. <b>2021</b> , 28, 3121-3135	4

331	Kinetics and mechanism of 4-methylbenzylidene camphor degradation by UV-activated persulfate oxidation. <b>2021</b> , 28, 18021-18034	4
330	Sulfate radical-based advanced oxidation processes for industrial wastewater treatment. <b>2021</b> , 431-462	O
329	Halogen Radicals Contribute to the Halogenation and Degradation of Chemical Additives Used in Hydraulic Fracturing. <b>2021</b> , 55, 1545-1554	3
328	Emerging investigator series: 3D graphene anchored zerovalent Fe/Cu aerogel activating persulfate for efficiently 2,4 dichlorophenol degradation over a broad pH range. <b>2021</b> , 7, 714-725	O
327	Research on Characteristic of Fe <sup>2+</sup> /S <sub>2</sub> O <sup>2-</sup>	

313	High adsorption and high catalyst regeneration kinetics observed for Flyash-Fe3O4-Ag magnetic composite for efficient removal of industrial azo reactive dyes from aqueous solution via persulfate activation. <b>2021</b> , 548, 149265	2
312	Evaluating and improving the reliability of the UV-persulfate method for the determination of TOC/DOC in surface waters. <b>2021</b> , 196, 116918	3
311	Dissolution mechanism of the oxidation process of covellite by ferric and ferrous ions. <b>2021</b> , 201, 105585	4
310	Photocatalytic degradation of nitrobenzene in wastewater by persulfate integrated with Ag/PbO semiconductor under visible light irradiation. <b>2021</b> , 7, e06984	2
309	Fe/N-codoped carbocatalysts loaded on carbon cloth (CC) for activating peroxymonosulfate (PMS) to degrade methyl orange dyes. <b>2021</b> , 549, 149300	13
308	Effect of inorganic anions on the performance of advanced oxidation processes for degradation of organic contaminants. <b>2021</b> , 411, 128392	123
307	Regioselective C-H Azidation of Anilines and Application to Synthesis of Key Intermediate for Pharmaceutical. <b>2021</b> , 86, 7842-7848	2
306	Singlet oxygen triggered by robust bimetallic MoFe/TiO2 nanospheres of highly efficacy in solar-light-driven peroxymonosulfate activation for organic pollutants removal. <b>2021</b> , 286, 119930	34
305	Synergistic effect for the degradation of tetracycline by rGO-Co3O4 assisted persulfate activation. <b>2021</b> , 153, 110005	12
304	Iprodione Removal by UV-Light-, Zero-Valent Iron- and Zero-Valent Aluminium-Activated Persulfate Oxidation Processes in Pure Water and Simulated Tertiary Treated Urban Wastewater. <b>2021</b> , 13, 1679	О
303	Naphthalene degradation in aqueous solution by Fe(II) activated persulfate coupled with citric acid. <b>2021</b> , 264, 118441	13
302	UV/Periodate Advanced Oxidation Process: Fundamentals and Applications. <b>2021</b> , 215-248	О
301	Sulphate radical-based advanced oxidation technologies for removal of COD and ammonia from hazardous landfill leachate: A review. 1-19	3
300	Sulfate radicals based heterogeneous peroxymonosulfate system catalyzed by CuO-Fe3O4-Biochar nanocomposite for bisphenol A degradation. <b>2021</b> , 41, 102078	9
299	Enhanced simultaneous removal of cadmium, lead, and acetochlor in hyporheic zones with calcium peroxide coupled with zero-valent iron: Mechanisms and application. <b>2021</b> , 130900	3
298	Insight into sludge dewatering by advanced oxidation using persulfate as oxidant and Fe as activator: Performance, mechanism and extracellular polymers and heavy metals behaviors. <b>2021</b> , 288, 112476	9
297	Cu/Cu cycle promoted PMS decomposition with the assistance of Mo for the degradation of organic pollutant. <b>2021</b> , 411, 125050	27
296	An overview on the elimination of organic contaminants from aqueous systems using electrochemical advanced oxidation processes. <b>2021</b> , 41, 102040	28

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276	Peroxymonosulfate activation by cobalt(II) for degradation of organic contaminants via high-valent cobalt-oxo and radical species. <b>2021</b> , 416, 125679	8
275	Enhanced degradation of ofloxacin by persulfate activation with Mn doped CuO: Synergetic effect between adsorption and non-radical activation. <b>2021</b> , 417, 127972	7
274	Diamond membrane production: The critical role of radicals in the non-contact electrochemical etching of sp2 carbon. <b>2021</b> , 185, 717-717	О
273	Transformation of ammonium to nitrophenolic byproducts by sulfate radical oxidation. <b>2021</b> , 202, 117432	7
272	Synergistic degradation of tetracycline by BiOBr microspheres combined with peroxydisulfate under visible LED light irradiation. <b>2021</b> , 133, 1	4
271	Isotope fractionation of diethyl phthalate during oxidation degradation by persulfate activated with zero-valent iron. <b>2021</b> , 132132	О
270	Ferrous oxalate covered ZVI through ball-milling for enhanced catalytic oxidation of organic contaminants with persulfate. <b>2022</b> , 287, 132421	1
269	Recent advances in simultaneous removal of SO2 and NOx from exhaust gases: Removal process, mechanism and kinetics. <b>2021</b> , 420, 127588	21
268	Interactions between the antibiotic tetracycline and humic acid: Examination of the binding sites, and effects of complexation on the oxidation of tetracycline. <b>2021</b> , 202, 117379	14
267	Electro-activated persulfate oxidation (EC/PS) for the treatment of real oilfield produced water: Optimization, developed numerical kinetic model, and comparison with thermal/EC/PS and EC systems. <b>2021</b> , 153, 384-402	4
266	Facile synthesis of iron oxide supported on porous nitrogen doped carbon for catalytic oxidation. <b>2021</b> , 785, 147296	1
265	Remediation of real soil polluted with hexachlorocyclohexanes (HCH and HCH) using combined thermal and alkaline activation of persulfate: Optimization of the operating conditions. <b>2021</b> , 270, 118795	6
264	Efficient peroxydisulfate activation with nZVI/CuO@BC nanocomposite derived from wastes for degradation of tetrabromobisphenol A in alkaline environment. <b>2021</b> , 417, 126029	6
263	Compound specific isotope analysis to characterize degradation mechanisms of p-chloroaniline by persulfate at ambient temperature. <b>2021</b> , 419, 129526	1
262	Development of a hydroxyl group-mediated biosynthetic schwertmannite as a persulfate activator for efficient degradation of RhB and Cr(VI) removal. <b>2021</b> , 419, 126496	4
261	Transformation of antiviral ribavirin during ozone/PMS intensified disinfection amid COVID-19 pandemic. <b>2021</b> , 790, 148030	5
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259	Mineralization, kinetics, and degradation pathway of pentachlorophenol degradation from aqueous media via persulfate/dithionite process. <b>2021</b> , 14, 103357	3
258	Mechanism of contaminants degradation in aqueous solution by persulfate in different Fe(II)-based synergistic activation environments: Taking chlorinated organic compounds and benzene series as the targets. <b>2021</b> , 273, 118990	3
257	Degradation of trichloroethene by citric acid chelated Fe(II) catalyzing sodium percarbonate in the environment of sodium dodecyl sulfate aqueous solution. <b>2021</b> , 281, 130798	6
256	Reactivity and reaction mechanisms of sulfate radicals with lindane: An experimental and theoretical study. <b>2021</b> , 201, 111523	8
255	Sulfate radical formation by Cr(III) activation of peroxydisulfate - Diphenylcarbazide spectrophotometric determination of sulfate radical and its scavenging activity. <b>2021</b> , 260, 119941	1
254	Fe(II)-activated peroxymonosulfate coupled with nanofiltration removes natural organic matter and sulfamethoxazole in natural surface water: Performance and mechanisms. <b>2021</b> , 274, 119088	10
253	Improving methane production from algal sludge anaerobic fermentation by peroxydisulfate (PDS) pretreatment. <b>2021</b> , 794, 148710	4
252	Activation of peroxydisulfate by carbon nanotube for the degradation of 2,4-dichlorophenol: Contributions of surface-bound radicals and direct electron transfer. <b>2021</b> , 283, 131282	4
251	Efficient decomposition of lignocellulose and improved composting performances driven by thermally activated persulfate based on metagenomics analysis. <b>2021</b> , 794, 148530	12
250	The mechanistic difference of 1T-2H MoS2 homojunctions in persulfates activation: Structure-dependent oxidation pathways. <b>2021</b> , 297, 120460	17
249	Superoxide radicals dominated visible light driven peroxymonosulfate activation using molybdenum selenide (MoSe2) for boosting catalytic degradation of pharmaceuticals and personal care products. <b>2021</b> , 296, 120223	18
248	The role of Fe-Nx single-atom catalytic sites in peroxymonosulfate activation: Formation of surface-activated complex and non-radical pathways. <b>2021</b> , 423, 130250	12
247	Persulfate enhanced electrochemical oxidation of phenol with CuFe2O4/ACF (activated carbon fibers) cathode. <b>2021</b> , 279, 119727	2
246	Insights into carbon isotope fractionation on trichloroethene degradation in base activated persulfate process: The role of multiple reactive oxygen species. <b>2021</b> , 800, 149371	O
245	Green synthesized nanosilver-biochar photocatalyst for persulfate activation under visible-light illumination. <b>2021</b> , 284, 131237	3
244	Degradation of TBBPA by nZVI activated persulfate in soil systems. <b>2021</b> , 284, 131166	9
243	Why does sludge-based hydochar activate peroxydisulfate to remove atrazine more efficiently than pyrochar?. <b>2021</b> , 299, 120663	3
242	Recent advances in persulfate-assisted TiO2-based photocatalysis for wastewater treatment: Performances, mechanism and perspectives. <b>2021</b> , 888, 161625	25

241	Optimization and mechanism of oily sludge treatment by a novel combined surfactants with activated-persulfate method. <b>2021</b> , 800, 149525	4
240	Degradation of simazine by heat-activated peroxydisulfate process: A coherent study on kinetics, radicals and models. <b>2021</b> , 426, 131876	6
239	Insight into electroreductive activation process of peroxydisulfate for eliminating organic pollution: Essential role of atomic hydrogen. <b>2021</b> , 426, 128355	2
238	Fabrication of NiO/MgAl layered double hydroxide with superior performance for peroxydisulfate activation. <b>2021</b> , 304, 122565	3
237	New insights into FeS/persulfate system for tetracycline elimination: Iron valence, homogeneous-heterogeneous reactions and degradation pathways <b>2022</b> , 112, 48-58	4
236	Enhanced activation of peroxymonosulfate through exfoliated oxygen-doping graphitic carbon nitride for degradation of organic pollutants. <b>2022</b> , 428, 131066	6
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234	Bisulfite reduction of soil iron for the reductive degradation of trichloroethylene. <b>2022</b> , 286, 131818	Ο
233	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
232	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
231	Simultaneous Cu-EDTA oxidation decomplexation and Cr(VI) reduction in water by persulfate/formate system: Reaction process and mechanisms. <b>2022</b> , 427, 131584	8
230	Biochar/iron oxide composite as an efficient peroxymonosulfate catalyst for the degradation of model naphthenic acids compounds. <b>2022</b> , 429, 132220	3
229	Synchronous oxidation and sequestration for As(iii) from aqueous solution by modified CuFeO coupled with peroxymonosulfate: a fast and stable heterogeneous process <b>2021</b> , 11, 4598-4609	O
228	K2S2O8-catalyzed highly regioselective amidoalkylation of diverse N-heteroaromatics in water under visible light irradiation. <b>2021</b> , 23, 5753-5758	6
227	Synergy of combining megahertz ultrasound frequency and heat-activated persulfate for wastewater decontamination: micromodeling of acoustic cavitation and its role in the sono-hybrid process. <b>2021</b> , 405-427	
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225	Thermochemical degradation of furfural by sulfate radicals in aqueous solution: optimization and synergistic effect studies. <b>2019</b> , 26, 8914-8927	28
224	Persistent free radicals on N-doped hydrochar for degradation of endocrine disrupting compounds. <b>2020</b> , 398, 125538	24

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222	Simultaneous disinfection of E. Faecalis and degradation of carbamazepine by sulfate radicals: An experimental and modelling study. <b>2020</b> , 263, 114558	33
221	Degradation of sulfamethazine by biochar-supported bimetallic oxide/persulfate system in natural water: Performance and reaction mechanism. <b>2020</b> , 398, 122816	86
220	Enhancing the degradation of bisphenol A by dioxygen activation using bimetallic Cu/Fe@zeolite: Critical role of Cu(I) and superoxide radical. <b>2020</b> , 253, 117550	6
219	Synergistic, aqueous PAH degradation by ultrasonically-activated persulfate depends on bulk temperature and physicochemical parameters. <b>2020</b> , 67, 105172	17
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216	Evidence of cathodic peroxydisulfate activation via electrochemical reduction at Fe(II) sites of magnetite-decorated porous carbon: Application to dye degradation in water. <b>2021</b> , 902, 115807	2
215	Preferential removal of benzene, toluene, ethylbenzene, and xylene (BTEX) by persulfate in ethanol-containing aquifer materials. <b>2021</b> , 1	1
214	Facile Synthesis of Atomic Fe-N-C Materials and Dual Roles Investigation of Fe-N Sites in Fenton-Like Reactions. <b>2021</b> , 8, e2101824	19
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201	Efficient photocatalytic degradation of ciprofloxacin using novel dual Z-scheme gCN/CuFe2O4/MoS2 mediated peroxymonosulphate activation. <b>2022</b> , 430, 132834	11
200	A comparative study of methods for remediation of diesel-contaminated soil. <b>2021</b> , 22, 792-804	
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196	Peroxide Activation by Microbially Synthesized Sulfidated Iron: Comparison against Abiotic Iron-Based Materials in terms of Treatment Efficiency and Oxidative Degradation Pathway. <b>2021</b> , 120884	2
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187	Degradation of sulfamethoxazole (SMX) by water falling film DBD Plasma/Persulfate: Reactive species identification and their role in SMX degradation. <b>2021</b> , 133916	13
186	Enhanced activation of peroxymonosulfate by bimetallic spinel sulfides CoNi2S4 for organic dye degradation. <b>2021</b> , 9, 106889	О
185	Removal of PFAS in Water and Water/Soil Slurry Using Fe -Modified Reactive Activated Carbon Conjugated with Persulfate. <b>2021</b> , e1671	0
184	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	О
183	Aeromonas hydrophila-derived BioMnOx activates peroxymonosulfate for 2,4-dimethylaniline degradation in water: mechanisms and catalyst reusability. <b>2022</b> , 158, 308-319	0
182	Hydrodynamic cavitation-enhanced heterogeneous activation of persulfate for tetracycline degradation: Synergistic effects, degradation mechanism and pathways. <b>2022</b> , 431, 134238	4
181	Nonradical induced degradation of bisphenol AF by NaBiO3 coupled peroxymonosulfate process: Performance and mechanism. <b>2022</b> , 285, 120356	0
180	Carbon materials in persulfate-based advanced oxidation processes: The roles and construction of active sites <b>2021</b> , 426, 128044	8
179	High flux Fe/activated carbon membranes for efficient degradation of organic pollutants in water by activating sodium persulfate. <b>2022</b> , 285, 120411	0
178	Simultaneous oxidation and analysis of TOC-TN-TP in one pot reactor <b>2021</b> , 292, 133336	О
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176	Preparation of nitriles from aldehydes using ammonium persulfate by means of a nitroxide-catalysed oxidative functionalisation reaction <b>2022</b> ,	О
175	The analysis of efficiency of activated peroxymonosulfate for fenuron degradation in water. <b>2022</b> , 26, 102352	1
174	Improving Surface Functionality, Hydrophilicity, and Interfacial Adhesion Properties of High-Density Polyethylene with Activated Peroxides <b>2022</b> ,	1
173	Biogenic fabrication of silver nanoparticles, oxidative dissolution and antimicrobial activities. <b>2022</b> , 26, 101414	0
172	Roles of Sulfites in Reverse Osmosis (RO) Plants and Adverse Effects in RO Operation <b>2022</b> , 12,	О
171	Activation of Na2S2O8 by ⊞e2O3/CuS composite oxides for the degradation of Orange II under visible light irradiation.	0
170	Cobalt with porous carbon architecture: Towards of 4-nitrophenol degradation and reduction. <b>2022</b> , 288, 120595	3

169	Efficient removal of 3,6-dichlorocarbazole with Fe-activated peroxymonosulfate: performance, intermediates and mechanism <b>2021</b> , 1-43	
168	Effective degradation of COVID-19 related drugs by biochar-supported red mud catalyst activated persulfate process: Mechanism and pathway. <b>2022</b> , 340, 130753	Ο
167	Oxidative polymerization of bisphenol A (BPA) via H-abstraction by Bi2.15WO6 and persulfate: Importance of the surface complexes. <b>2022</b> , 435, 134816	3
166	Degradation of the typical herbicide atrazine by UV/persulfate: kinetics and mechanisms <b>2022</b> , 1	Ο
165	Analysis of the effects of chemical oxidation on microbial activity using 2021, 7, e08665	1
164	Transformation of Amino Acids and Formation of Nitrophenolic Byproducts in Sulfate Radical Oxidation Processes.	
163	Enhanced Remediation of a Real Hch-Polluted Soil by the Synergetic Alkaline and Ultrasonic Activation of Persulfate.	
162	Synergetic Photocatalytic Fuel Cell and Cufe Layered Doubled Hydroxide as Photoactivator of Persulfate for Dramatically Electricity Generation of Organic Pollutants Degradation.	
161	Insights on Free Radical Oxidation and In-Situ Coagulation in Pms/Fe(Ii) Process for the Removal of Algogenic Organic Matter Precursors.	
160	Transformation of Amino Acids and Formation of Nitrophenolic Byproducts in Sulfate Radical Oxidation Processes.	
159	Boosting Oxone Oxidation Process Via Carbon Fiber Support Co-Mn Bimetallic Oxide: Exploring the Synergistic Effect of Co and Mn.	
158	Synthesis, photocatalytic and antibacterial activities of a PDS-activated MgO nanocatalyst: experimental and theoretical studies. <b>2022</b> , 46, 6694-6707	1
157	In Situ EPR Spin Trapping and Competition Kinetics Demonstrate Temperature-Dependent Mechanisms of Synergistic Radical Production by Ultrasonically Activated Persulfate <b>2022</b> ,	2
156	Hydroxylamine enhanced activation of peroxymonosulfate by Fe(III)/Cu(II) bimetallic for high-efficiency degradation of AO7.	0
155	Heterogeneous Photocatalytic Activation of Persulfate for the Removal of Organic Contaminants in Water: A Critical Review. <b>2022</b> , 2, 527-546	5
154	Enhanced Mechanism of Nano Zero-Valent Iron Activated Persulfate for Persistent Organic Pollutants in the Environment. 9, 1-11	Ο
153	Activation of ferrate(VI) by sulfite for effectively degrading iodinated contrast media and synchronously controlling I-DBPs formation. <b>2022</b> , 136011	2
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151	A comparative study of the degradation of refractory organic matter in MBR effluent from landfill leachate treatment by the microwave-enhanced iron-activated hydrogen peroxide and peroxydisulfate processes. <b>2022</b> ,	1
150	Development of Novel and Efficient Catalytic Systems for C-H Activation and Application to Practical Synthesis of Pharmaceuticals. <b>2022</b> , 80, 357-368	
149	CuNPs as an activator of K2S2O8 for the decolorization of diazo dye in aqueous solution. <b>2022</b> , 26, 101443	O
148	Three-dimensional flower-like magnetic CoFe-LDHs/CoFeO composites activating peroxymonosulfate for high efficient degradation of aniline <b>2022</b> , 310, 114693	Ο
147	The effect of persistent free radicals in sludge derived biochar on p-chlorophenol removal 2022, 134218	O
146	Comparative study of H2O2/PDS-based advanced oxidation process using Fe3O4 nanoparticles for Rhodamine B degradation: Mechanism, stability and applicability. <b>2022</b> , 47, 102757	1
145	Activation of peroxymonosulfate by a floating oxygen vacancies - CuFeO photocatalyst under visible light for efficient degradation of sulfamethazine <b>2022</b> , 824, 153630	O
144	Removal of disinfection byproducts and toxicity of chlorinated water by post-treatments of ultraviolet/hydrogen peroxide and ultraviolet /peroxymonosulfate. <b>2022</b> , 352, 131563	1
143	Transformation of amino acids and formation of nitrophenolic byproducts in sulfate radical oxidation processes <b>2022</b> , 431, 128648	1
142	Exploring the synergism of sunlight and electrooxidation on persulfate activation for efficient degradation of bisphenol S: Performance, Pathway, and mechanism. <b>2022</b> , 437, 135318	1
141	Buoyant titanium dioxide (TiO2) as high performance photocatalyst and peroxide activator: A critical review on fabrication, mechanism and application. <b>2022</b> , 10, 107549	1
140	Nature of surface active centers in activation of peroxydisulfate by CuO for degradation of BPA with non-radical pathway. <b>2022</b> , 643, 128731	O
139	Highly efficient degradation of phenolic compounds by Fe(II)-activated dual oxidant (persulfate/calcium peroxide) system <b>2022</b> , 299, 134392	О
138	Enhanced remediation of a real HCH-polluted soil by the synergetic alkaline and ultrasonic activation of persulfate. <b>2022</b> , 440, 135901	O
137	How to measure quantum yield of hydroxyl radical during photolysis of natural Fe(III) carboxylates?. <b>2022</b> , 298, 134237	О
136	Iron cobalt and nitrogen co-doped carbonized wood sponge for peroxymonosulfate activation: Performance and internal temperature-dependent mechanism <b>2022</b> , 619, 267-279	O
135	Free radicals-triggered reductive and oxidative degradation of highly chlorinated compounds via regulation of heat-activated persulfate by low-molecular-weight organic acids. <b>2022</b> , 310, 121359	7
134	Insight into Naphthalene Degradation by Nano-calcium Peroxide in Fe(II)-Citric Acid Catalytic Environment. <b>2021</b> , 232, 1	2

133	Evaluation of advanced oxidation processes for Eblockers degradation: a review 2022, 85, 685-705	0
132	Nitroxide-Catalyzed Oxidative Amidation of Aldehydes to Yield N -Acyl Azoles Using Sodium Persulfate. <b>2022</b> , 2022,	1
131	Single-Atom Cobalt Incorporated in a 2D Graphene Oxide Membrane for Catalytic Pollutant Degradation <b>2021</b> ,	1
130	Insight into synergetic mechanism of CuyMn5-yOx/hG-activated peroxydisulfate enhances tetracycline antibiotics degradation and toxicity assessment. <b>2022</b> , 121066	1
129	Removal of malathion insecticide from aqueous solution by the integration of persulfate process and magnetite nanoparticles loaded on carbon (Fe3O4@CNT) in the presence of ultraviolet radiation. 1-11	
128	Carbonized resin with Fe&Co bimetal for peroxymonosulfate activation to degrade atrazine. <b>2022</b> , 292, 121049	O
127	Oxidation of Sulfide with the Cuo Catalyst Assisted Oxygen Microbubbles in Alkaline Wastewater: Efficiency, Sulfur Conversion, and Mechanisms.	
126	Persulfate Promoted Microfluidic Electrochemistry: Direct Conversion of Cyclohexane into Adipic Acid.	
125	RECYCLING OF WET-STRENGTH TISSUE PAPER. PART 1. KINETICS OF PAPER DISINTEGRATION AT REPULP-ING PROCESS. <b>2022</b> , 355-365	O
124	pH-Controlled Intramolecular Decarboxylative Cyclization of Biarylacetic Acids: Implication on Umpolung Reactivity of Aroyl Radicals <b>2022</b> , 87, 6638-6656	1
123	Enhanced performance and recyclability for peroxymonosulfate activation via g-C3N4 supported CoFe layer double oxide. <b>2022</b> , 444, 136610	1
122	Insights on free radical oxidation and in-situ coagulation in PMS/Fe(II) process for the removal of algogenic organic matter precursors. <b>2022</b> , 136986	o
121	Comparing the efficacy of various methods for sulfate radical generation for antibiotics degradation in synthetic wastewater: degradation mechanism, kinetics study, and toxicity assessment. <b>2022</b> , 12, 14945-14956	0
120	Aerobic and anaerobic regulation induced different degradation behaviors of parachloronitrobenzene in soil by microwave activated persulfate oxidation. <b>2022</b> , 121333	1
119	In-situ photothermal activation of peroxydisulfate in a carbon nanotubes membrane-based flow-by reactor toward degradation of contaminants. <b>2022</b> , 135119	0
118	Hydrothermal carbon modified Cu <b>E</b> e oxide with enhanced Fe(II)/Fe(III) cycle to activate peroxydisulfate for phenol removal.	
117	EPR Evidence for Mechanistic Diversity of Cu(II)/Peroxygen Oxidation Systems by Tracing the Origin of DMPO Spin Adducts.	2
116	Ciprofloxacin Degradation with Persulfate Activated with the Synergistic Effect of the Activated Carbon and Cobalt Dual Catalyst.	O

115	Enhanced three-dimensional electrochemical process using magnetic recoverable of Fe3O4@GAC towards furfural degradation and mineralization. <b>2022</b> , 103980	1
114	Effect of phosphates on oxidative species generation and sulfamethoxazole degradation in a pig manure derived biochar activated peroxymonosulfate system. <b>2022</b> , 295, 121255	0
113	Mechanistic insight into sulfite-enhanced diethyl phthalate degradation by hydrogen atom under UV light. <b>2022</b> , 295, 121310	
112	Coupling surfactants with ISCO for remediating of NAPLs: Recent progress and application challenges. <b>2022</b> , 303, 135004	O
111	Boosting Oxone Oxidation Process Via Carbon Fiber Support Co-Mn Bimetallic Oxide: Exploring the Synergistic Effect of Co and Mn.	
110	Core-Shell Femn@Ng Derived from Cellulose Supported Prussian Blue Analogs for Peroxymonosulfate Activation: Non-Radical Mechanism and Ultra-Low Metal Leaching.	
109	Efficient Activation of Peroxymonosulfate by C3N5 Doped with Cobalt for Organic Contaminant Degradation.	2
108	Fluidized ZnO@BCFPs Particle Electrodes for Efficient Degradation and Detoxification of Metronidazole in 3D Electro-Peroxone Process. <b>2022</b> , 15, 3731	
107	Modification Mechanism of Polyamide Reverse Osmosis Membrane by Persulfate: Roles of Hydroxyl and Sulfate Radicals.	Ο
106	Revisiting the contribution of FeIVO2+ in Fe(II)/peroxydisulfate system. <b>2022</b> ,	
	Revisiting the contribution of Fervoz+ IIIT e(ii)/peroxydisutiate system. 2022,	O
105	Removal of COD, phenol, and colour from olive mill wastewater by iron-activated persulphate process: multivariate optimisation approach. 1-23	O
105	Removal of COD, phenol, and colour from olive mill wastewater by iron-activated persulphate	0
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104	Removal of COD, phenol, and colour from olive mill wastewater by iron-activated persulphate process: multivariate optimisation approach. 1-23  The role of sulfate radicals and pH in the decomposition of persulfate in aqueous medium: A step towards prediction. 2022, 11, 100331  Thermally activated persulfate-based Advanced Oxidation Processes Decent progress and challenges in mineralization of persistent organic chemicals: a review. 2022, 37, 100839  Facile One-Step Preparation of Co and CE Doped Tio2 in Visible Light Pms Activation for Pahs Degradation.  The significance of enhanced photocatalytic degradation of RhB on the synthesis, characterization,	1
104 103 102	Removal of COD, phenol, and colour from olive mill wastewater by iron-activated persulphate process: multivariate optimisation approach. 1-23  The role of sulfate radicals and pH in the decomposition of persulfate in aqueous medium: A step towards prediction. 2022, 11, 100331  Thermally activated persulfate-based Advanced Oxidation Processes Irecent progress and challenges in mineralization of persistent organic chemicals: a review. 2022, 37, 100839  Facile One-Step Preparation of Co and CE Doped Tio2 in Visible Light Pms Activation for Pahs Degradation.  The significance of enhanced photocatalytic degradation of RhB on the synthesis, characterization, and effects of Ag doped CdS-WO2 Nano composites. 2022, 3, 20-32  Photoactivation of peroxymonosulfate by wood pulp cellulose biochar/g-C3N4 composite for	2

97	Assessment of the validity of the quenching method for evaluating the role of reactive species in pollutant abatement during the persulfate-based process. <b>2022</b> , 221, 118730	4
96	Recent advances in catalytic sulfate radical-based approach for removal of emerging contaminants. <b>2022</b> , 7, 100108	1
95	Piezo-promoted persulfate activation by SrBi2B2O7 for efficient sulfadiazine degradation from water. <b>2022</b> , 437, 129359	1
94	Heat-Activated Peroxydisulfate and Peroxymonosulfate-Mediated Degradation of Benzotriazole: Effects of Chloride and Ph on Kinetics, Pathways and Product Toxicity.	
93	Boosting Oxone Oxidation Process Via Carbon Fiber Support Co-Mn Bimetallic Oxide: Exploring the Synergistic Effect of Co and Mn.	
92	Water decontamination under high salinity via TiO2 NTs/PbO2-Cu electro-chemical oxidation system: kinetics mechanism and DFT studies.	O
91	Cobalt (II)-catalyzed oxidation of 2-aryl benzoic acids to access biaryl lactones.	0
90	Heat-activated persulfate for the degradation of micropollutants in water: A comprehensive review and future perspectives. <b>2022</b> , 318, 115568	1
89	Persulfate promoted flow electrochemistry: Direct conversion of cyclohexane into adipic acid. <b>2022</b> , 426, 140796	0
88	Efficient chlorinated alkanes degradation in soil by combining alkali hydrolysis with thermally activated persulfate. <b>2022</b> , 438, 129571	1
87	Degradation of geosmin and 2-methylisoborneol in UV-based AOPs for photoreactors with reflective inner surfaces: Kinetics and transformation products. <b>2022</b> , 306, 135611	0
86	Thermal activation of persulfates for organic wastewater purification: Heating modes, mechanism and influencing factors. <b>2022</b> , 450, 137976	1
85	Rapid degradation of organic pollutants by Fe3O4@PDA/Ag catalyst in advanced oxidation process. <b>2022</b> , 135791	O
84	Internal electric field-mediated sulfur vacancy-modified-In2S3/TiO2 thin-film heterojunctions as a photocatalyst for peroxymonosulfate activation: Density functional theory calculations, levofloxacin hydrochloride degradation pathways and toxicity of intermediates. <b>2022</b> , 138271	1
83	Photo-assisted Reductive Cleavage and Catalytic Hydrolysis-mediated Persulfate Activation by Mixed Redox-couple-involved CuFeS2 for Efficient Trichloroethylene Oxidation in Groundwater. <b>2022</b> , 118885	O
82	Photodegradation of oxytetracycline by UV-assisted persulfate and percarbonate processes: kinetics, influencing factors, anion effect, and radical species.	O
81	Multi-hollow spherical CeO2 activates persulfate for heterogeneous degradation of organics.	
80	Trace Iron as single-electron shuttle for interdependent activation of peroxydisulfate and HSO3[IO2 enables accelerated generation of radicals. 2022, 223, 118935	

79	The journey of toluene to complete mineralization via heat-activated peroxydisulfate in water: intermediates analyses, CO2 monitoring, and carbon mass balance. <b>2022</b> , 440, 129739	O
78	Treatment of salon wastewater by peroxydisulfate based advanced oxidation process (PDS-AOP) under solar light: Synergy through integrated technologies. <b>2022</b> , 49, 103062	1
77	Integrated strategy for efficient simultaneous desulfurization and denitrification of flue gas and high value conversion of sulfur and nitrogen resources. <b>2022</b> , 440, 129827	
76	Synergistic effects of Vis/H2O2/LaFe1⊠CuxO3 and Vis/PDS/LaFe1⊠CuxO3 for quinoline degradation: Performance and mechanism. <b>2022</b> , 10, 108322	1
75	Heterogeneous Fenton-like removal of tri(2-chloroisopropyl) phosphate by ilmenite (FeTiO3): Kinetic, degradation mechanism and toxic assessment. <b>2022</b> , 307, 135915	
74	N-doped carbon intercalated Fe-doped MoS2 nanosheets with widened interlayer spacing: An efficient peroxymonosulfate activator for high-salinity organic wastewater treatment. <b>2022</b> , 628, 318-330	Ο
73	Outlook on Single Atom Catalysts for Persulfate-Based Advanced Oxidation.	2
7 <sup>2</sup>	Application of FeS-activated persulfate oxidation system for the degradation of tetracycline in aqueous solution.	Ο
71	Oxidation of sulfide with the CuO catalyst assisted oxygen microbubbles in alkaline wastewater: Efficiency, sulfur conversion, and mechanisms. <b>2022</b> , 12, 100408	0
70	Facile one-step preparation of Co and Ce doped TiO2 in visible light PMS activation for PAHs degradation. <b>2022</b> , 308, 136360	O
69	N-doped carbon supported cobalt electrospun nanofibers activated peroxymonosulfate system for benzothiazole degradation: Multifunctional role of nitrogen species. <b>2022</b> , 302, 122099	0
68	The coupling of persulfate activation and membrane separation for the effective pollutant degradation and membrane fouling alleviation. <b>2023</b> , 451, 139009	1
67	Activation of Persulfate by Vanadium Oxide Modified Carbon Nanotube for 17 Estradiol Degradation in Soil: Mechanism, Application and Ecotoxicity Assessment.	0
66	Could Sulfidation Enhance the Long-Term Performance of Nano-Zero Valent Iron in the Peroxymonosulfate Activation to Degrade Pcb1?.	Ο
65	Enhanced activation of sulfite by the Co(II)-bicarbonate complexes for iohexol abatement: Role of free radicals versus high valent cobalt species. <b>2023</b> , 452, 139554	О
64	Effective Fenton-like degradation of the tebuthiuron herbicide by ferrocene functionalized g-C3N4. <b>2023</b> , 435, 114276	1
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62	Removal of NO in flue gas simulated by the Fe2+/Cu2+-activated double oxidant system. 1-10	Ο

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41	New insight of Mn(III) in EMnO2 for peroxymonosulfate activation reaction: Via direct electron transfer or via free radical reactions. <b>2023</b> , 217, 114874	О
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