

# CITATION REPORT

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Activation of persulfate (PS) and peroxymonosulfate (PMS) and application for the degradation of emerging contaminants

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#	Paper	IF	Citations
1981	Formation and Oxidation Reactivity of $MnO_2+(HCO_3)_n$ in the $MnII(HCO_3)H_2O_2$ System.		
1980	Metal Organic Framework with Coordinatively Unsaturated Sites as Efficient Fenton-like Catalyst for Enhanced Degradation of Sulfamethazine. <b>2018</b> , 52, 5367-5377		271
1979	Co-Mn layered double hydroxide as an effective heterogeneous catalyst for degradation of organic dyes by activation of peroxymonosulfate. <b>2018</b> , 204, 11-21		119
1978	Carbon and hydrogen isotope fractionation of phthalate esters during degradation by sulfate and hydroxyl radicals. <i>Chemical Engineering Journal</i> , <b>2018</b> , 347, 111-118	14.7	25
1977	Iron doped fibrous-structured silica nanospheres as efficient catalyst for catalytic ozonation of sulfamethazine. <b>2018</b> , 25, 10090-10101		8
1976	Microbial degradation of triclosan by a novel strain of <i>Dyella</i> sp. <b>2018</b> , 102, 1997-2006		24
1975	Advanced treatment of petrochemical wastewater by combined ozonation and biological aerated filter. <b>2018</b> , 25, 9673-9682		20
1974	Degradation of carbamazepine by radiation-induced activation of peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 595-601	14.7	62
1973	UVA-UVB activation of hydrogen peroxide and persulfate for advanced oxidation processes: Efficiency, mechanism and effect of various water constituents. <b>2018</b> , 347, 279-287		65
1972	Fenton-like oxidation of 4-chlorophenol using HO in situ generated by Zn-Fe-CNTs composite. <b>2018</b> , 214, 252-260		15
1971	Peroxymonosulfate assisted mechanochemical method for the degradation of phenanthrene in contaminated soils. <b>2018</b> , 4, 22-31		6
1970	A g-C <sub>3</sub> N <sub>4</sub> /MIL-101(Fe) heterostructure composite for highly efficient BPA degradation with persulfate under visible light irradiation. <b>2018</b> , 6, 23703-23711		90
1969	Activation of Peroxymonosulfate by Fe <sub>3</sub> O <sub>4</sub> /xWO <sub>3</sub> /NiAl Layered Double Hydroxide Composites for the Degradation of 2,4-Dichlorophenoxyacetic Acid. <b>2018</b> , 57, 16308-16317		21
1968	Kinetic, equilibrium, and thermodynamic performance of sulfonamides adsorption onto graphene. <b>2018</b> , 25, 36615-36623		17
1967	Electronic Structure Modulation of Graphitic Carbon Nitride by Oxygen Doping for Enhanced Catalytic Degradation of Organic Pollutants through Peroxymonosulfate Activation. <b>2018</b> , 52, 14371-14380		228
1966	Assessment of Sulfate Radical-Based Advanced Oxidation Processes for Water and Wastewater Treatment: A Review. <b>2018</b> , 10, 1828		109
1965	Fenton oxidation of municipal secondary effluent: comparison of Fe/Ce-RGO (reduced graphene oxide) and Fe as catalysts. <b>2018</b> , 25, 31358-31367		1

1964	Investigating the aerated VUV/PS process simultaneously generating hydroxyl and sulfate radicals for the oxidation of cyanide in aqueous solution and industrial wastewater. <i>Chemical Engineering Journal</i> , <b>2018</b> , 350, 673-680	14.7	40
1963	Radiation-induced degradation of sulfamethoxazole in the presence of various inorganic anions. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 688-696	14.7	66
1962	Magnetic MnFe <sub>2</sub> O <sub>4</sub> activated peroxymonosulfate processes for degradation of bisphenol A: Performance, mechanism and application feasibility. <b>2018</b> , 459, 138-147		74
1961	Implementation of continuously electro-generated FeO nanoparticles for activation of persulfate to decompose amoxicillin antibiotic in aquatic media: UV and ultrasound intensification. <b>2018</b> , 224, 315-326		39
1960	MOF-templated synthesis of CoFe <sub>2</sub> O <sub>4</sub> nanocrystals and its coupling with peroxymonosulfate for degradation of bisphenol A. <i>Chemical Engineering Journal</i> , <b>2018</b> , 353, 329-339	14.7	177
1959	Electrochemical activation of sulfate by BDD anode in basic medium for efficient removal of organic pollutants. <b>2018</b> , 210, 516-523		68
1958	Implementation of martite nanoparticles prepared through planetary ball milling as a heterogeneous activator of oxone for degradation of tetracycline antibiotic: Ultrasound and peroxy-enhancement. <b>2018</b> , 210, 699-708		40
1957	Advanced oxidation of pharmaceuticals by the ozone-activated peroxymonosulfate process: the role of different oxidative species. <b>2018</b> , 360, 204-213		35
1956	Biodegradation of typical pharmaceutical compounds by a novel strain <i>Acinetobacter</i> sp. <b>2018</b> , 217, 240-246		48
1955	Optimization of the catalytic activity of a ZnCoO catalyst in peroxymonosulfate activation for bisphenol A removal using response surface methodology. <b>2018</b> , 212, 152-161		39
1954	Enhanced peroxymonosulfate activation for phenol degradation over MnO at pH 3.5-9.0 via Cu(II) substitution. <b>2018</b> , 360, 303-310		55
1953	Utilization of raw red mud as a source of iron activating the persulfate oxidation of paraben. <b>2018</b> , 119, 311-319		13
1952	The occurrence, distribution and degradation of antibiotics by ionizing radiation: An overview. <b>2019</b> , 646, 1385-1397		233
1951	Degradation of metronidazole antibiotic in aqueous medium using activated carbon as a persulfate activator. <b>2019</b> , 210, 145-151		56
1950	Comment on Lominchar et al. [1]. <b>2019</b> , 40, 132		2
1949	Electro-assisted activation of peroxymonosulfate by iron-based minerals for the degradation of 1-butyl-1-methylpyrrolidinium chloride. <b>2019</b> , 208, 34-41		21
1948	Construction of Fe <sub>2</sub> O <sub>3</sub> /Co <sub>3</sub> O <sub>4</sub> /exfoliated graphite composite and its high efficient treatment of landfill leachate by activation of potassium persulfate. <i>Chemical Engineering Journal</i> , <b>2019</b> , 355, 952-962	14.7	46
1947	Synergetic activation of peroxymonosulfate by MnO-loaded FeOOH catalyst for enhanced degradation of organic pollutant in water. <b>2019</b> , 693, 133589		31

1946	Cobalt-impregnated biochar (Co-SCG) for heterogeneous activation of peroxymonosulfate for removal of tetracycline in water. <b>2019</b> , 292, 121954	67
1945	A comparative study of dinitrodiazophenol industrial wastewater treatment: Ozone/hydrogen peroxide versus microwave/persulfate. <b>2019</b> , 130, 39-47	10
1944	Comparison of UV/Persulfate and UV/HO for the removal of naphthenic acids and acute toxicity towards <i>Vibrio fischeri</i> from petroleum production process water. <b>2019</b> , 694, 133686	21
1943	Efficient degradation of atrazine with porous sulfurized Fe <sub>2</sub> O <sub>3</sub> as catalyst for peroxymonosulfate activation. <b>2019</b> , 259, 118056	104
1942	Electron directed migration cooperated with thermodynamic regulation over bimetallic NiFeP/g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic hydrogen evolution. <b>2019</b> , 259, 118078	74
1941	Degradation of antibiotics and antibiotic resistance genes in erythromycin fermentation residues using radiation coupled with peroxymonosulfate oxidation. <b>2019</b> , 96, 190-197	18
1940	A potential novel approach for in situ chemical oxidation based on the combination of persulfate and dithionite. <b>2019</b> , 693, 133635	8
1939	Enhanced catalytic degradation of bisphenol A by hemin-MOFs supported on boron nitride via the photo-assisted heterogeneous activation of persulfate. <b>2019</b> , 229, 115822	46
1938	Current trends in the use of zero-valent iron (Fe <sup>0</sup> ) for degradation of pharmaceuticals present in different water matrices. <b>2019</b> , 24, e00069	21
1937	Mechanistic insight into the adsorption of diclofenac by MIL-100: Experiments and theoretical calculations. <b>2019</b> , 253, 616-624	44
1936	Spatial separation of photogenerated carriers and enhanced photocatalytic performance on Ag <sub>3</sub> PO <sub>4</sub> catalysts via coupling with PPy and MWCNTs. <b>2019</b> , 258, 117969	81
1935	Improved bioelectricity production using potassium monopersulfate as cathode electron acceptor by novel bio-electrochemical activation in microbial fuel cell. <b>2019</b> , 690, 654-666	8
1934	Application of persulfate salts for enhancing UV disinfection in marine waters. <b>2019</b> , 163, 114866	19
1933	Highly flexible, mesoporous structured, and metallic Cu-doped C/SiO nanofibrous membranes for efficient catalytic oxidative elimination of antibiotic pollutants. <b>2019</b> , 11, 14844-14856	23
1932	The impact of wastewater matrix on the degradation of pharmaceutically active compounds by oxidation processes including ultraviolet radiation and sulfate radicals. <b>2019</b> , 380, 120869	25
1931	Ciprofloxacin removal by electro-activated persulfate in aqueous solution using iron electrodes. <b>2019</b> , 9, 1	15
1930	Phosphorus-rich microorganism-enabled synthesis of cobalt phosphide/carbon composite for bisphenol A degradation through activation of peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122187	14.7 27
1929	A review on carbon-based materials for heterogeneous sonocatalysis: Fundamentals, properties and applications. <b>2019</b> , 58, 104681	51

1928	UV-LED/PMS preoxidation to control fouling caused by harmful marine algae in the UF pretreatment of seawater desalination. <b>2019</b> , 467, 219-228	26
1927	Enhanced mineralization of sulfamethoxazole by gamma radiation in the presence of FeO as Fenton-like catalyst. <b>2019</b> , 26, 27712-27725	15
1926	Efficient degradation of refractory organic contaminants by zero-valent copper/hydroxylamine/peroxymonosulfate process. <b>2019</b> , 237, 124431	14
1925	Persulfate enhanced visible light photocatalytic degradation of organic pollutants by construct magnetic hybrid heterostructure. <b>2019</b> , 806, 1207-1219	17
1924	Enhanced activation of peroxymonosulfate by LaFeO perovskite supported on AlO for degradation of organic pollutants. <b>2019</b> , 237, 124478	49
1923	Application of Fe-based metal-organic framework and its pyrolysis products for sulfonamide treatment. <b>2019</b> , 26, 28106-28126	19
1922	Review on ultrasound assisted persulfate degradation of organic contaminants in wastewater: Influences, mechanisms and prospective. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122146	14.7 65
1921	A review of graphene-based nanomaterials for removal of antibiotics from aqueous environments. <b>2019</b> , 253, 100-110	108
1920	Efficient activation of peroxymonosulfate by hollow cobalt hydroxide for degradation of ibuprofen and theoretical study. <b>2019</b> , 30, 2191-2195	60
1919	Heterogeneous co-activation of peroxymonosulfate by CuCoFe calcined layered double hydroxides and ultraviolet irradiation for the efficient removal of p-nitrophenol. <b>2019</b> , 30, 19009-19019	10
1918	Performance and Mechanism of GO-MCM-Fe Composite Catalyst Activating Persulfate to Remove Levofloxacin Hydrochloride in Water. <b>2019</b> , 230, 1	4
1917	Catalytic degradation of organic pollutants in Fe(III)/peroxymonosulfate (PMS) system: performance, influencing factors, and pathway. <b>2019</b> , 26, 36410-36422	10
1916	Oxidative Polymerization of 3,6-Phenylenediamino-2,5-dichlorobenzoquinone. <b>2019</b> , 61, 519-529	
1915	Mn-based catalysts for sulfate radical-based advanced oxidation processes: A review. <b>2019</b> , 133, 105141	94
1914	Coupled heat-activated persulfate - Electrolysis for the abatement of organic matter and total nitrogen from landfill leachate. <b>2019</b> , 97, 47-51	11
1913	Effect of thermal activated peroxydisulfate pretreatment on short-chain fatty acids production from waste activated sludge anaerobic fermentation. <b>2019</b> , 292, 121977	13
1912	Enhanced activation of peroxymonosulfate by CNT-TiO <sub>2</sub> under UV-light assistance for efficient degradation of organic pollutants. <b>2019</b> , 13, 1	18
1911	Sulfate Radicals-Based Technology as a Promising Strategy for Wastewater. <b>2019</b> , 11, 1695	3

1910	MiR-208a aggravates HO-induced cardiomyocyte injury by targeting APC. <b>2019</b> , 864, 172668		5
1909	Degradation of Acid Orange 7 through radical activation by electro-generated cuprous ions. <b>2019</b> , 7, 103450		1
1908	NaBH <sub>4</sub> -treated cobalt-doped g-C <sub>3</sub> N <sub>4</sub> for enhanced activation of peroxymonosulfate. <b>2019</b> , 256, 126623		12
1907	Visible-light activation of TiO <sub>2</sub> by dye-sensitization for degradation of pharmaceutical compounds. <b>2019</b> , 18, 897-904		28
1906	Synergic thermal activation of peroxydisulfate intercalated Mg/Al layered double hydroxide at a low temperature. <i>Chemical Engineering Journal</i> , <b>2019</b> , 363, 133-140	14.7	8
1905	Enhanced degradation of sulfadiazine by novel L-alaninediacetic acid-modified FeO nanocomposite coupled with peroxymonosulfate. <b>2019</b> , 662, 490-500		18
1904	Synthesis of magnetic nickel ferrite/carbon sphere composite for levofloxacin elimination by activation of persulfate. <b>2019</b> , 215, 528-539		31
1903	Degradation of bisphenol A by activating peroxymonosulfate with Mn <sub>0.6</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> fabricated from spent Zn-Mn alkaline batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 364, 541-551	14.7	68
1902	Degradation of tetracycline by peroxymonosulfate activated with zero-valent iron: Performance, intermediates, toxicity and mechanism. <i>Chemical Engineering Journal</i> , <b>2019</b> , 364, 45-56	14.7	250
1901	Key structural features promoting radical driven degradation of emerging contaminants in water. <b>2019</b> , 124, 38-48		11
1900	Iron sludge-derived magnetic Fe <sub>0</sub> /Fe <sub>3</sub> C catalyst for oxidation of ciprofloxacin via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 365, 99-110	14.7	79
1899	Disinfection performance using a UV/persulfate system: effects derived from different aqueous matrices. <b>2019</b> , 18, 878-883		18
1898	Studies on the Kinetics of Doxazosin Degradation in Simulated Environmental Conditions and Selected Advanced Oxidation Processes. <b>2019</b> , 11, 1001		5
1897	Effect of peroxydisulfate on the degradation of phenol under dielectric barrier discharge plasma treatment. <b>2019</b> , 232, 462-470		15
1896	Degradation of triphenyl phosphate (TPhP) by CoFeO-activated peroxymonosulfate oxidation process: Kinetics, pathways, and mechanisms. <b>2019</b> , 681, 331-338		44
1895	Nitrogen-doped graphene as peroxymonosulfate activator and electron transfer mediator for the enhanced degradation of sulfamethoxazole. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122041	14.7	81
1894	MOF-derived three-dimensional flower-like FeCu@C composite as an efficient Fenton-like catalyst for sulfamethazine degradation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122007	14.7	84
1893	Comparative study of persulfate oxidants promoted photocatalytic fuel cell performance: Simultaneous dye removal and electricity generation. <b>2019</b> , 234, 658-667		53

1892	Strategy of combining radiation with ferrate oxidation for enhancing the degradation and mineralization of carbamazepine. <b>2019</b> , 687, 1028-1033		11
1891	Simulated solar photo-assisted decomposition of peroxymonosulfate. Radiation filtering and operational variables influence on the oxidation of aqueous bezafibrate. <b>2019</b> , 162, 383-393		15
1890	Removal of sulfamethoxazole from water via activation of persulfate by Fe <sub>3</sub> C@NCNTs including mechanism of radical and nonradical process. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122004	14.7	144
1889	Pharmaceutically active compounds in aqueous environment: A status, toxicity and insights of remediation. <b>2019</b> , 176, 108542		89
1888	Surface Fe(III)/Fe(II) cycle promoted the degradation of atrazine by peroxymonosulfate activation in the presence of hydroxylamine. <b>2019</b> , 256, 117782		142
1887	Photocatalytic performance of Ag <sub>2</sub> O towards sulfamethoxazole degradation in environmental samples. <b>2019</b> , 7, 103177		14
1886	The Effects of Ultrasound on the Electro-Oxidation of Sulfate Solutions at Low pH. <b>2019</b> , 20, 3134-3140		3
1885	High-energy ball milling enhancing the reactivity of microscale zero-valent aluminum toward the activation of persulfate and the degradation of trichloroethylene. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 100-111	14.7	30
1884	Degradation of imipramine by vacuum ultraviolet (VUV) system: Influencing parameters, mechanisms, and variation of acute toxicity. <b>2019</b> , 233, 282-291		16
1883	Activation of persulfate ions by TiO <sub>2</sub> /carbon dots nanocomposite under visible light for photocatalytic degradations of organic contaminants. <b>2019</b> , 30, 12510-12522		12
1882	Experimental Evaluation of Oxidizing Breakers for a Polyacrylamide-Based Re-Crosslinkable Preformed Particle Gel. <b>2019</b> , 33, 5001-5010		10
1881	Catalytic oxidation of clofibrac acid by peroxydisulfate activated with wood-based biochar: Effect of biochar pyrolysis temperature, performance and mechanism. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 1253-1263	14.7	66
1880	Transformation of persulfate to free sulfate radical over granular activated carbon: Effect of acidic oxygen functional groups. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 965-974	14.7	23
1879	Efficient removal of organic contaminant via activation of potassium persulfate by Fe <sub>2</sub> O <sub>3</sub> /MnO <sub>2</sub> nanocomposite. <b>2019</b> , 227, 115669		28
1878	Magnetic Co-based carbon materials derived from core-shell metal-organic frameworks for organic contaminant elimination with peroxymonosulfates. <b>2019</b> , 48, 10251-10259		4
1877	Stepwise adsorption-oxidation removal of oxytetracycline by ZnO-CNTs-Fe <sub>3</sub> O <sub>4</sub> from aqueous solution. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121963	14.7	29
1876	Catalytic ozonation of sulfamethoxazole over FeO/CoO composites. <b>2019</b> , 234, 14-24		79
1875	Pre-magnetization for enhancing the iron-catalyzed activation of peroxymonosulfate via accelerating the corrosion of Fe. <b>2019</b> , 79, 1287-1296		4

1874	Edge-nitrogenated biochar for efficient peroxydisulfate activation: An electron transfer mechanism. <b>2019</b> , 160, 405-414		232
1873	Facile synthesis of sludge-derived MnOx-N-biochar as an efficient catalyst for peroxymonosulfate activation. <b>2019</b> , 255, 117765		87
1872	Removal of methamphetamine by UV-activated persulfate: Kinetics and mechanisms. <b>2019</b> , 379, 32-38		14
1871	Metal-organic framework mixed-matrix coatings on 3D printed devices. <b>2019</b> , 16, 21-27		30
1870	Quasi-full-visible-light absorption by D35-TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> for synergistic persulfate activation towards efficient photodegradation of micropollutants. <b>2019</b> , 256, 117759		89
1869	Kinetics and pathway of atrazine degradation by a novel method: Persulfate coupled with dithionite. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 803-813	14.7	29
1868	Attenuation of BPA degradation by SO <sub>4</sub> <sup>•-</sup> in a system of peroxymonosulfate coupled with Mn/Fe MOF-templated catalysts and its synergism with Cl <sup>-</sup> and bicarbonate. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 605-615	14.7	80
1867	Persulfate activation towards organic decomposition and Cr(VI) reduction achieved by a novel CQDs-TiO <sub>2</sub> /rGO nanocomposite. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 238-250	14.7	57
1866	Wood-based biochar as an excellent activator of peroxydisulfate for Acid Orange 7 decolorization. <b>2019</b> , 231, 32-40		47
1865	Efficient activation of persulfate decomposition by Cu <sub>2</sub> FeSnS <sub>4</sub> nanomaterial for bisphenol A degradation: Kinetics, performance and mechanism studies. <b>2019</b> , 253, 278-285		58
1864	Screening of heterogeneous catalysts for the activated persulfate oxidation of sulfamethoxazole in aqueous matrices. Does the matrix affect the selection of catalyst?. <b>2019</b> , 94, 2425-2432		10
1863	Atrazine degradation using FeO-sepiolite catalyzed persulfate: Reactivity, mechanism and stability. <b>2019</b> , 377, 62-69		47
1862	Nanoarchitected metal-organic framework-derived hollow carbon nanofiber filters for advanced oxidation processes. <b>2019</b> , 7, 13743-13750		74
1861	Light-driven breakdown of 1,4-Dioxane for potable reuse: A review. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 508-518	14.7	15
1860	Activation of Persulfate by Biochars from Valorized Olive Stones for the Degradation of Sulfamethoxazole. <b>2019</b> , 9, 419		32
1859	Persulfate enhanced pollutants oxidation efficiency and power generation in photocatalytic fuel cell with anodic BiOCl/BiOI and cathodic copper cobalt oxide. <b>2019</b> , 101, 31-40		12
1858	Insights into nitrogen and boron-co-doped graphene toward high-performance peroxymonosulfate activation: Maneuverable N-B bonding configurations and oxidation pathways. <b>2019</b> , 253, 419-432		94
1857	Activation of peroxymonosulfate system by copper-based catalyst for degradation of naproxen: Mechanisms and pathways. <b>2019</b> , 228, 54-64		21



1856	Preparation, modification and environmental application of biochar: A review. <b>2019</b> , 227, 1002-1022		587
1855	Electrochemical activation of peroxymonosulfate with ACF cathode: Kinetics, influencing factors, mechanism, and application potential. <b>2019</b> , 159, 111-121		92
1854	Enhancement of peroxymonosulfate activation and utilization efficiency via iron oxychloride nanosheets in visible light. <b>2019</b> , 224, 132-141		29
1853	N-doped graphitic biochars from C-phycoyanin extracted Spirulina residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. <b>2019</b> , 159, 77-86		175
1852	Enhancement of ciprofloxacin degradation in the Fe(II)/peroxymonosulfate system by protocatechuic acid over a wide initial pH range. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 1113-1121	14.7	37
1851	Co <sub>3</sub> O <sub>4</sub> /Al Layered Double Oxides as Heterogeneous Catalyst for Enhanced Degradation of Organic Pollutants in Wastewater by Activating Peroxymonosulfate: Performance and Synergistic Effect. <b>2019</b> ,		20
1850	Persulfate-based advanced oxidation processes (AOPs) for organic-contaminated soil remediation: A review. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 836-851	14.7	214
1849	Further understanding the involvement of Fe(IV) in peroxydisulfate and peroxymonosulfate activation by Fe(II) for oxidative water treatment. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 842-847	14.7	90
1848	Ascorbic acid induced activation of persulfate for pentachlorophenol degradation. <b>2019</b> , 229, 200-205		35
1847	Degradation of dye in wastewater by Homogeneous Fe(VI)/NaHSO system. <b>2019</b> , 228, 595-601		16
1846	Coagulation treatment of swine wastewater by the method of in-situ forming layered double hydroxides and sludge recycling for preparation of biochar composite catalyst. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 784-792	14.7	59
1845	Hydrogen peroxide generation from O electroreduction for environmental remediation: A state-of-the-art review. <b>2019</b> , 225, 588-607		99
1844	Preparation and Catalytic Performance of Expanded Graphite for Oxidation of Organic Pollutant. <b>2019</b> , 9, 280		21
1843	Metal-Organic Frameworks and Their Derived Materials: Emerging Catalysts for a Sulfate Radicals-Based Advanced Oxidation Process in Water Purification. <b>2019</b> , 15, e1900744		97
1842	Degradation of sulfamethoxazole by ionizing radiation: Kinetics and implications of additives. <b>2019</b> , 668, 67-73		57
1841	Magnetic biochar catalysts from anaerobic digested sludge: Production, application and environment impact. <b>2019</b> , 126, 302-308		51
1840	Peroxymonosulfate activation by hydroxylamine-drinking water treatment residuals for the degradation of atrazine. <b>2019</b> , 224, 689-697		28
1839	In-situ pyrolysis of Enteromorpha as carbocatalyst for catalytic removal of organic contaminants: Considering the intrinsic N/Fe in Enteromorpha and non-radical reaction. <b>2019</b> , 250, 382-395		229

1838	Formation of Nitrophenolic Byproducts during Heat-Activated Peroxydisulfate Oxidation in the Presence of Natural Organic Matter and Nitrite. <b>2019</b> , 53, 4255-4264		37
1837	Reduced CuFe <sub>2</sub> O <sub>4</sub> for catalytic oxidation of methyl orange by activation of persulfate: performances and mechanisms. <b>2019</b> , 45, 3541-3556		8
1836	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. <b>2019</b> , 157, 106-118		72
1835	Degradation of Triclosan in soils by thermally activated persulfate under conditions representative of in situ chemical oxidation (ISCO). <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 344-352	14.7	34
1834	Kinetic and mechanistic investigation on the decomposition of ketamine by UV-254 nm activated persulfate. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 19-26	14.7	33
1833	Efficient degradation of atrazine by CoMgAl layered double oxides catalyzed peroxymonosulfate: Optimization, degradation pathways and mechanism. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 354-363	14.7	97
1832	Improved degradation of anthraquinone dye by electrochemical activation of PDS. <b>2019</b> , 177, 77-85		45
1831	Transformation of iodide by Fe(II) activated peroxydisulfate. <b>2019</b> , 373, 519-526		10
1830	Evaluation of transformation products from chemical oxidation of micropollutants in wastewater by photoassisted generation of sulfate radicals. <b>2019</b> , 226, 509-519		17
1829	Effects of MnO <sub>2</sub> of different structures on activation of peroxymonosulfate for bisphenol A degradation under acidic conditions. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 906-915	14.7	98
1828	Persulfate activation by Fe(III) with bioelectricity at acidic and near-neutral pH regimes: Homogeneous versus heterogeneous mechanism. <b>2019</b> , 374, 92-100		29
1827	Remediation of phenanthrene contaminated soil by coupling soil washing with Tween 80, oxidation using the UV/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> process and recycling of the surfactant. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 1014-1023	14.7	47
1826	Modelling of iohexol degradation in a Fe(II)-activated persulfate system. <i>Chemical Engineering Journal</i> , <b>2019</b> , 367, 86-93	14.7	32
1825	Conversion of sewage sludge into environmental catalyst and microbial fuel cell electrode material: A review. <b>2019</b> , 666, 525-539		53
1824	Hydroxyl and sulfate radicals formation in UVA/Fe(III)-NTA/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> system: Mechanism and effectiveness in carbamazepine degradation at initial neutral pH. <i>Chemical Engineering Journal</i> , <b>2019</b> , 368, 541-552	14.7	21
1823	Assessment of different iron species as activators of S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> and HSO <sub>5</sub> <sup>-</sup> for inactivation of wild bacteria strains. <b>2019</b> , 248, 54-61		31
1822	Metal-free graphene-based catalytic membrane for degradation of organic contaminants by persulfate activation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 223-232	14.7	64
1821	Controllable synthesis of mesoporous manganese oxide microsphere efficient for photo-Fenton-like removal of fluoroquinolone antibiotics. <b>2019</b> , 248, 298-308		96

1820	Solar-assisted bacterial disinfection and removal of contaminants of emerging concern by Fe <sup>2+</sup> -activated HSO <sub>5</sub> <sup>-</sup> vs. S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> in drinking water. <b>2019</b> , 248, 62-72		63
1819	Heterogeneous activation of persulfate by NiFe <sub>2</sub> O <sub>4</sub> -RGO for oxidative degradation of bisphenol A in water. <i>Chemical Engineering Journal</i> , <b>2019</b> , 365, 259-269	14.7	46
1818	Functionalized nanomaterials: a new avenue for mitigating environmental problems. <b>2019</b> , 16, 5331-5358		13
1817	Advanced Oxidation and Reduction Processes. <b>2019</b> , 135-164		17
1816	Efficient Degradation of Mordant Blue 9 Using the Fenton-Activated Persulfate System. <b>2019</b> , 11, 2532		17
1815	Removal of organic micropollutants from water by sonophotolytic-activated persulfate process. <b>2019</b> , 687, 066051		2
1814	Oxidative Degradation of Azo Dyes in Combined Fenton-like Oxidative Systems. <b>2019</b> , 93, 2349-2355		4
1813	Modeling of Photooxidative Degradation of Aromatics in Water Matrix: A Quantitative Structure-Property Relationship Approach. <b>2019</b> , 257-292		
1812	Decolorisation of Methylene Blue with Sodium Persulfate Activated with Visible Light in the Presence of Glucose and Sucrose. <b>2019</b> , 230, 1		3
1811	Kinetics and pathways of diclofenac degradation by heat-activated persulfate.. <b>2019</b> , 9, 31370-31377		13
1810	A facile heterogeneous system for persulfate activation by CuFeO under LED light irradiation.. <b>2019</b> , 9, 32328-32337		7
1809	Activation of peroxymonosulfate by sludge-derived biochar for the degradation of triclosan in water and wastewater. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 350-358	14.7	165
1808	Degradation of UV filter BP-1 with nitrogen-doped industrial graphene as a metal-free catalyst of peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 262-271	14.7	32
1807	Novel magnetic MnO <sub>2</sub> /MnFe <sub>2</sub> O <sub>4</sub> nanocomposite as a heterogeneous catalyst for activation of peroxymonosulfate (PMS) toward oxidation of organic pollutants. <b>2019</b> , 213, 456-464		85
1806	Degradation of macrolide antibiotic erythromycin and reduction of antimicrobial activity using persulfate activated by gamma radiation in different water matrices. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 156-166	14.7	48
1805	Role of the radical promoter systems on the degradation of an antiepileptic drug using HO and SO <sub>4</sub> <sup>-</sup> species. <b>2019</b> , 27, 162-170		3
1804	Oxidative removal of carbamazepine by peroxymonosulfate (PMS) combined to ionizing radiation: Degradation, mineralization and biological toxicity. <b>2019</b> , 658, 1367-1374		41
1803	Hydroxylamine enhanced degradation of naproxen in Cu <sup>2+</sup> activated peroxymonosulfate system at acidic condition: Efficiency, mechanisms and pathway. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 764-772	14.7	54

1802	Efficient degradation of atrazine by Co-NZ catalyst prepared by electroless plating in the presence of peroxymonosulfate: Characterization, performance and mechanistic consideration. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 1316-1326	14.7	30
1801	Mechanochemical formation of highly active manganese species from OMS-2 and peroxymonosulfate for degradation of dyes in aqueous solution. <b>2019</b> , 45, 935-946		4
1800	Degradation of dimethyl phthalate by activating peroxymonosulfate using nanoscale zero valent tungsten: Mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 138-148	14.7	30
1799	Efficient degradation of sulfamethoxazole by the CuO@Al <sub>2</sub> O <sub>3</sub> (EPC) coupled PMS system: Optimization, degradation pathways and toxicity evaluation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 1097-1110	14.7	128
1798	Removal of nitrophenols and their derivatives by chemical redox: A review. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 13-31	14.7	157
1797	Gingerbread ingredient-derived carbons-assembled CNT foam for the efficient peroxymonosulfate-mediated degradation of emerging pharmaceutical contaminants. <b>2019</b> , 244, 367-384		46
1796	Significance of B-site cobalt on bisphenol A degradation by MOFs-templated Co <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> catalysts and its severe attenuation by excessive cobalt-rich phase. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 552-563	14.7	24
1795	Copper phosphide and persulfate salt: A novel catalytic system for the degradation of aqueous phase micro-contaminants. <b>2019</b> , 244, 178-187		53
1794	Enhancement of dewaterability and heavy metals solubilization of waste activated sludge conditioned by natural vanadium-titanium magnetite-activated peroxymonosulfate oxidation with rice husk. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 217-224	14.7	36
1793	Photocatalytic Mechanisms for Peroxymonosulfate Activation through the Removal of Methylene Blue: A Case Study. <b>2019</b> , 16,		8
1792	UV-activated persulfate oxidation of 17 $\beta$ -estradiol: Implications for discharge water remediation. <b>2019</b> , 7, 102858		14
1791	Enhanced degradation performance of bisphenol M using peroxymonosulfate activated by zero-valent iron in aqueous solution: Kinetic study and product identification. <b>2019</b> , 221, 314-323		26
1790	Heterogeneous activation of persulfate by CoO-CeO catalyst for diclofenac removal. <b>2019</b> , 234, 265-272		52
1789	A novel manganese oxidizing bacterium- <i>Aeromonas hydrophila</i> strain DS02: Mn(II) oxidization and biogenic Mn oxides generation. <b>2019</b> , 367, 539-545		38
1788	Biochar-induced Fe(III) reduction for persulfate activation in sulfamethoxazole degradation: Insight into the electron transfer, radical oxidation and degradation pathways. <i>Chemical Engineering Journal</i> , <b>2019</b> , 362, 561-569	14.7	117
1787	Organic dye degradation through peroxymonosulfate catalyzed by reusable graphite felt/ferriferrous oxide: Mechanism and identification of intermediates. <b>2019</b> , 111, 43-52		74
1786	Highly efficient degradation of trichloroethylene in groundwater based on peroxymonosulfate activation by bentonite supported Fe/Ni bimetallic nanoparticle. <b>2019</b> , 216, 499-506		32
1785	Effective degradation of fenitrothion by zero-valent iron powder (Fe <sup>0</sup> ) activated persulfate in aqueous solution: Kinetic study and product identification. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1479-1488	14.7	73

1784	Photocatalytic oxidation of sulfamethoxazole in the presence of TiO <sub>2</sub> : Effect of matrix in aqueous solution on decomposition mechanisms. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 1527-1536	14.7	51
1783	Enhanced visible-light activation of persulfate by Ti self-doped TiO <sub>2</sub> /graphene nanocomposite for the rapid and efficient degradation of micropollutants in water. <b>2019</b> , 365, 107-117		89
1782	Intensification of light green SF yellowish (LGSFY) photodegradation in water by iodate ions: Iodine radicals implication in the degradation process and impacts of water matrix components. <b>2019</b> , 652, 1219-1227		8
1781	Cobalt doped g-C <sub>3</sub> N <sub>4</sub> activation of peroxymonosulfate for monochlorophenols degradation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 360, 1213-1222	14.7	138
1780	Degradation of sulfamethazine by persulfate activated with organo-montmorillonite supported nano-zero valent iron. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 99-108	14.7	77
1779	Synthesis of magnetic CuO/MnFe <sub>2</sub> O <sub>4</sub> nanocomposite and its high activity for degradation of levofloxacin by activation of persulfate. <i>Chemical Engineering Journal</i> , <b>2019</b> , 360, 848-860	14.7	116
1778	Insights into removal of tetracycline by persulfate activation with peanut shell biochar coupled with amorphous Cu-doped FeOOH composite in aqueous solution. <b>2019</b> , 26, 2820-2834		37
1777	Highly efficient catalysis of chalcopyrite with surface bonded ferrous species for activation of peroxymonosulfate toward degradation of bisphenol A: A mechanism study. <b>2019</b> , 364, 59-68		61
1776	Activation of peroxymonosulfate by BiOCl@FeO catalyst for the degradation of atenolol: Kinetics, parameters, products and mechanism. <b>2019</b> , 216, 248-257		21
1775	Design and application of heterogeneous catalysts as peroxydisulfate activator for organics removal: An overview. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 110-133	14.7	138
1774	Kinetics study of dinitrodiazophenol industrial wastewater treatment by a microwave-coupled ferrous-activated persulfate process. <b>2019</b> , 215, 82-91		33
1773	Polychlorinated biphenyls (PCBs) in the environment: Recent updates on sampling, pretreatment, cleanup technologies and their analysis. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1186-1207	14.7	83
1772	Catalytic, antioxidant and anticancer activities of gold nanoparticles synthesized by kaempferol glucoside from <i>Lotus leguminosae</i> . <b>2020</b> , 13, 3112-3122		49
1771	Activation of persulfate by CuO-sludge-derived carbon dispersed on silicon carbide foams for odorous methyl mercaptan elimination: identification of reactive oxygen species. <b>2020</b> , 27, 1224-1233		6
1770	Carbocatalytic activation of persulfate for the removal of drug diclofenac from aqueous matrices. <b>2020</b> , 355, 937-944		13
1769	Effects of persulfate treatment on antibiotic resistance genes abundance and the bacterial community in secondary effluent. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 121860	14.7	14
1768	UV-induced Persulfate Oxidation of Organic Micropollutants in Water Matrices. <b>2020</b> , 42, 13-23		8
1767	Mechanistic study on the combination of ultrasound and peroxymonosulfate for the decomposition of endocrine disrupting compounds. <b>2020</b> , 60, 104749		28

1766	One-step synthesis of nuclear-shell structure iron-carbon nanocomposite as a persulfate activator for bisphenol A degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122780	14.7	44
1765	Reduced graphene oxide-supported metal organic framework as a synergistic catalyst for enhanced performance on persulfate induced degradation of trichlorophenol. <b>2020</b> , 240, 124849		22
1764	Biomass Schiff base polymer-derived N-doped porous carbon embedded with CoO nanodots for adsorption and catalytic degradation of chlorophenol by peroxymonosulfate. <b>2020</b> , 384, 121345		49
1763	Synergistic effects of H <sub>2</sub> O <sub>2</sub> and S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> in the gamma radiation induced degradation of congo-red dye: Kinetics and toxicities evaluation. <b>2020</b> , 233, 115966		56
1762	Microwave-induced persulfate-hydrogen peroxide binary oxidant process for the treatment of dinitrodiazophenol industrial wastewater. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122803	14.7	24
1761	Microcystis aeruginosa-laden water treatment using peroxymonosulfate enhanced Fe(II) coagulation: Performance and the role of in situ formed Fe <sub>3</sub> O <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 123012	14.7	17
1760	Flexible, mesoporous, and monodispersed metallic cobalt-embedded inorganic nanofibrous membranes enable ultra-fast and high-efficiency killing of bacteria. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122909	14.7	13
1759	Oxidative degradation of pharmaceutical losartan potassium with N-doped hierarchical porous carbon and peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122971	14.7	34
1758	Synergistic activation of peroxymonosulfate and persulfate by ferrous ion and molybdenum disulfide for pollutant degradation: Theoretical and experimental studies. <b>2020</b> , 240, 124979		41
1757	A metal organic framework-ultrafiltration hybrid system for removing selected pharmaceuticals and natural organic matter. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122920	14.7	29
1756	Highly nitrogen-doped porous carbon transformed from graphitic carbon nitride for efficient metal-free catalysis. <b>2020</b> , 393, 121280		44
1755	Degradation of diclofenac in aqueous solution by ionizing radiation in the presence of humic acid. <b>2020</b> , 234, 116079		32
1754	Kinetics of PMS activation by graphene oxide and biochar. <b>2020</b> , 239, 124812		32
1753	Transformation of tetrabromobisphenol a in the iron ions-catalyzed auto-oxidation of HSO <sub>3</sub> <sup>-</sup> /SO <sub>3</sub> <sup>2-</sup> process. <b>2020</b> , 235, 116197		7
1752	Treatment of organosilicon wastewater by UV-based advanced oxidation processes: Performance comparison and fluorescence parallel factor analysis. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122536	14.7	18
1751	Synergistic multiple active species for the degradation of sulfamethoxazole by peroxymonosulfate in the presence of CuO@FeOx@Fe <sub>0</sub> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122568	14.7	57
1750	The bromate formation accompanied by the degradation of 2,4-bromophenol in UV/p peroxymonosulfate. <b>2020</b> , 233, 116028		9
1749	Nanocrystalline ferrihydrite activated peroxymonosulfate for butyl-4-hydroxybenzoate oxidation: Performance and mechanism. <b>2020</b> , 242, 125140		3

1748	Visible-light activation of persulfate by TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> photocatalyst toward efficient degradation of micropollutants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123245	14.7	138
1747	Electrochemical/Fe/peroxymonosulfate system for the degradation of Acid Orange 7 adsorbed on activated carbon fiber cathode. <b>2020</b> , 241, 125125		24
1746	Functionalized g-C <sub>3</sub> N <sub>4</sub> sheets assisted synthesis of growth-oriented MIL-88B-Fe with rod-like structure: Upgrading framework photo-catalytic performance and stability. <b>2020</b> , 503, 144089		40
1745	Novel NiCo <sub>2</sub> S <sub>4</sub> /CS membranes as efficient catalysts for activating persulfate and its high activity for degradation of nimesulide. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122517	14.7	8
1744	Graphitic biochar catalysts from anaerobic digestion sludge for nonradical degradation of micropollutants and disinfection. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123244	14.7	58
1743	Iron-mediated activation of persulfate and peroxymonosulfate in both homogeneous and heterogeneous ways: A review. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123265	14.7	234
1742	Removal of ciprofloxacin by persulfate activation with CuO: A pH-dependent mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122837	14.7	41
1741	Activation of peroxymonosulfate by novel Pt/Al <sub>2</sub> O <sub>3</sub> membranes via a nonradical mechanism for efficient degradation of electron-rich aromatic pollutants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122563	14.7	18
1740	Treatment of fresh leachate from a municipal solid waste incineration plant by combined radiation with coagulation process. <b>2020</b> , 166, 108501		11
1739	Sulfate saturated biosorbent-derived Co-S@NC nanoarchitecture as an efficient catalyst for peroxymonosulfate activation. <b>2020</b> , 262, 118302		159
1738	Iron and sulfur co-doped graphite carbon nitride (FeO <sub>y</sub> /S-g-C <sub>3</sub> N <sub>4</sub> ) for activating peroxymonosulfate to enhance sulfamethoxazole degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122836	14.7	63
1737	Iron-copper bimetallic metal-organic frameworks for efficient Fenton-like degradation of sulfamethoxazole under mild conditions. <b>2020</b> , 241, 125002		69
1736	Mechanism and performance of singlet oxygen dominated peroxymonosulfate activation on CoOOH nanoparticles for 2,4-dichlorophenol degradation in water. <b>2020</b> , 384, 121350		78
1735	Enhanced activation of persulfate by AC@CoFe <sub>2</sub> O <sub>4</sub> nanocomposites for effective removal of lomefloxacin. <b>2020</b> , 233, 115978		33
1734	Heterogeneously catalyzed persulfate with activated carbon coated with CoFe layered double hydroxide (AC@CoFe-LDH) for the degradation of lomefloxacin. <b>2020</b> , 235, 116204		43
1733	Synthesis of polyimide-modified carbon nanotubes as catalyst for organic pollutant degradation via production of singlet oxygen with peroxymonosulfate without light irradiation. <b>2020</b> , 382, 120993		29
1732	Treatment of wastewater containing 2-methoxyphenol by persulfate with thermal and alkali synergistic activation: Kinetics and mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122411	14.7	23
1731	High-performance porous graphene from synergetic nitrogen doping and physical activation for advanced nonradical oxidation. <b>2020</b> , 381, 121010		33

1730	Novel ZnO/Ag <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> nanocomposites for activation of persulfate ions in photocatalytic removal of organic contaminants under visible light. <b>2020</b> , 239, 121988		16
1729	Inactivation of water pathogens with solar photo-activated persulfate oxidation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122275	14.7	19
1728	Remarkably enhanced sulfate radical-based photo-Fenton-like degradation of levofloxacin using the reduced mesoporous MnO@MnOx microspheres. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122340	14.7	73
1727	Treatment of membrane filtration concentrate of coking wastewater using PMS/chloridion oxidation process. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122361	14.7	25
1726	Highly efficient removal of organic pollutants via a green catalytic oxidation system based on sodium metaborate and peroxymonosulfate. <b>2020</b> , 238, 124687		7
1725	Degradation of antibiotics and inactivation of antibiotic resistance genes (ARGs) in Cephalosporin C fermentation residues using ionizing radiation, ozonation and thermal treatment. <b>2020</b> , 382, 121058		37
1724	Simultaneous removal of Cr(VI) and triclosan from aqueous solutions through Fe <sub>3</sub> O <sub>4</sub> magnetic nanoscale-activated persulfate oxidation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122586	14.7	28
1723	Covalent organic frameworks as efficient adsorbent for sulfamerazine removal from aqueous solution. <b>2020</b> , 383, 121126		93
1722	Enhanced degradation and mineralization of sulfamethoxazole by integrating gamma radiation with Fenton-like processes. <b>2020</b> , 166, 108457		19
1721	Enhancement of peroxymonosulfate activation for antibiotics removal by nano zero valent tungsten induced Cu(II)/Cu(I) redox cycles. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 123054	14.7	31
1720	Peroxymonosulfate enhanced photoelectrocatalytic degradation of ofloxacin using an easily coated cathode. <b>2020</b> , 236, 116301		13
1719	Co <sub>0.59</sub> Fe <sub>0.41</sub> P nanocubes derived from nanoscale metal-organic frameworks for removal of diethyl phthalate by activation of peroxymonosulfate. <b>2020</b> , 589, 117307		20
1718	Magnetic COFs for the adsorptive removal of diclofenac and sulfamethazine from aqueous solution: Adsorption kinetics, isotherms study and DFT calculation. <b>2020</b> , 385, 121596		53
1717	Polyoxometalates/TiO <sub>2</sub> photocatalysts with engineered facets for enhanced degradation of bisphenol A through persulfate activation. <b>2020</b> , 268, 118394		46
1716	Enhanced activation of peroxymonosulfate with metal-substituted hollow M <sub>x</sub> Co <sub>3-x</sub> S <sub>4</sub> polyhedrons for superfast degradation of sulfamethazine. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123302	14.7	31
1715	UV-based advanced oxidation process for the treatment of pharmaceuticals and personal care products. <b>2020</b> , 367-408		4
1714	Constructing isotype CN/s-CN heterojunction with enhanced photocatalytic performance. <b>2020</b> , 101, 107616		3
1713	Improving PMS oxidation of organic pollutants by single cobalt atom catalyst through hybrid radical and non-radical pathways. <b>2020</b> , 263, 118350		85



1712	An efficient CuO-Fe <sub>2</sub> O <sub>3</sub> composite activates persulfate for organic pollutants removal: Performance, advantages and mechanism. <b>2020</b> , 242, 125191		17
1711	Advanced oxidation processes for the treatment of contaminants of emerging concern. <b>2020</b> , 299-365		7
1710	Sustainable synthesis of modulated Fe-MOFs with enhanced catalyst performance for persulfate to degrade organic pollutants. <b>2020</b> , 701, 134806		34
1709	Degradation of antibiotics by advanced oxidation processes: An overview. <b>2020</b> , 701, 135023		348
1708	Nitrogen, sulfur and oxygen co-doped carbon-armed Co/CoS rods (Co/CoS@N-S-O-C) as efficient activator of peroxymonosulfate for sulfamethoxazole degradation. <b>2020</b> , 387, 121669		29
1707	Comprehensive study on the formation of brominated byproducts during heat-activated persulfate degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122660	14.7	14
1706	Comparison study on microwave irradiation-activated persulfate and hydrogen peroxide systems in the treatment of dinitrodiazophenol industrial wastewater. <b>2020</b> , 242, 125139		10
1705	Activation of peroxymonosulfate by magnetic Co-Fe/SiO <sub>2</sub> layered catalyst derived from iron sludge for ciprofloxacin degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123298	14.7	48
1704	Minimizing beneficiation wastewater through internal reuse of process water in flotation circuit. <b>2020</b> , 245, 118898		22
1703	Peroxymonosulfate activation by nitrogen-doped biochar from sawdust for the efficient degradation of organic pollutants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124065	14.7	62
1702	Multi-walled carbon nanotubes-CoFe O nanoparticles as a reusable novel peroxymonosulfate activator for degradation of Reactive Black 5. <b>2020</b> , 92, 969-974		13
1701	Nanoscale zero valent iron-activated persulfate coupled with Fenton oxidation process for typical pharmaceuticals and personal care products degradation. <b>2020</b> , 239, 116534		42
1700	Enhanced Transformation of Emerging Contaminants by Permanganate in the Presence of Redox Mediators. <b>2020</b> , 54, 1909-1919		18
1699	Catalytic activation of peroxymonosulfate using CeVO <sub>4</sub> for phenol degradation: An insight into the reaction pathway. <b>2020</b> , 266, 118601		50
1698	Fe(III) adsorption on graphene oxide: A low-cost and simple modification method for persulfate activation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124012	14.7	16
1697	Nanostructured manganese oxides: natural/artificial formation and their induced catalysis for wastewater remediation. <b>2020</b> , 7, 368-396		31
1696	Activation of persulfate by microwave radiation combined with FeS for treatment of wastewater from explosives production. <b>2020</b> , 6, 581-592		8
1695	Hydroxylamine-assisted peroxymonosulfate activation using cobalt ferrite for sulfamethoxazole degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 386, 123751	14.7	18

1694	Peroxymonosulfate activation by Co9S8@ S and N co-doped biochar for sulfamethoxazole degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 385, 123933	14.7	56
1693	Insights into the difference in metal-free activation of peroxymonosulfate and peroxydisulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 123936	14.7	22
1692	Degradation of indigo carmine by coupling Fe(II)-activated sodium persulfate and ozone in a rotor-stator reactor. <b>2020</b> , 148, 107791		4
1691	AOPs-based remediation of petroleum hydrocarbons-contaminated soils: Efficiency, influencing factors and environmental impacts. <b>2020</b> , 246, 125726		47
1690	Removal of polycyclic aromatic hydrocarbons (PAHs) and the response of indigenous bacteria in highly contaminated aged soil after persulfate oxidation. <b>2020</b> , 190, 110092		20
1689	Peroxymonosulfate-assisted photocatalytic degradation of sulfadiazine using self-assembled multi-layered CoAl-LDH/g-C3N4 heterostructures: Performance, mechanism and eco-toxicity evaluation. <b>2020</b> , 33, 101084		43
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1687	Copper substituted zinc ferrite with abundant oxygen vacancies for enhanced ciprofloxacin degradation via peroxymonosulfate activation. <b>2020</b> , 390, 121998		43
1686	Degradation of benzotriazole by DBD plasma and peroxymonosulfate: Mechanism, degradation pathway and potential toxicity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123300	14.7	32
1685	Enhanced transition metal oxide based peroxymonosulfate activation by hydroxylamine for the degradation of sulfamethoxazole. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123057	14.7	31
1684	Enhanced degradation of monochlorobenzene in groundwater by ferrous iron/persulfate process with cysteine. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124048	14.7	19
1683	Property and mechanism of phenol degradation by biochar activated persulfate. <b>2020</b> , 9, 601-609		11
1682	Structural features of contaminants of emerging concern behind empirical parameters of mechanistic models describing their photooxidative degradation. <b>2020</b> , 33, 101053		4
1681	High-performance porous carbon catalysts doped by iron and nitrogen for degradation of bisphenol F via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123683	14.7	74
1680	Highly efficient activation of peroxymonosulfate by cobalt sulfide hollow nanospheres for fast ciprofloxacin degradation. <b>2020</b> , 389, 121856		46
1679	Performance of a microwave radiation induced persulfate-hydrogen peroxide binary-oxidant process in treating dinitrodiaphenol wastewater. <b>2020</b> , 236, 116253		9
1678	Reagent or catalyst? [FeS as activator for persulfate in water. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 123804	14.7	11
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1675	A novel strategy of successive non-radical and radical process for enhancing the utilization efficiency of persulfate. <b>2020</b> , 245, 125555		8
1674	Structured carbon fiber cloth-templated ZIF-8 by binder-free method for efficient dyes removal from water. <b>2020</b> , 242, 122563		11
1673	A bioaugmentation agent allowing the advanced treatment of refractory refinery wastewater in a biological aerated filter and analysis of its microbial community. <b>2020</b> , 95, 1258		1
1672	Kinetics and mechanisms of enhanced degradation of ibuprofen by piezo-catalytic activation of persulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123818	14.7	33
1671	Removal of sulfamethoxazole in water by electro-enhanced Co/peroxydisulfate system with activated carbon fiber-cathode. <b>2020</b> , 245, 125644		11
1670	Metformin degradation in aqueous solutions by electro-activation of persulfate and hydrogen peroxide using natural and synthetic ferrous ion sources. <b>2020</b> , 300, 112285		14
1669	Ultrasound-assisted heterogeneous activation of peroxymonosulphate by natural pyrite for 2,4-dichlorophenol degradation in water: Synergistic effects, pathway and mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 123771	14.7	31
1668	Degradation of benzene derivatives in the CuMgFe-LDO/persulfate system: The role of the interaction between the catalyst and target pollutants. <b>2020</b> , 90, 87-97		12
1667	Degradation of orange II by Fe@FeO core shell nanomaterials assisted by NaHSO. <b>2020</b> , 244, 125588		12
1666	Efficient removal of acid orange 7 using a porous adsorbent-supported zero-valent iron as a synergistic catalyst in advanced oxidation process. <b>2020</b> , 244, 125522		25
1665	Highly-efficient degradation of triclosan attributed to peroxymonosulfate activation by heterogeneous catalyst g-C <sub>3</sub> N <sub>4</sub> /MnFe <sub>2</sub> O <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123554	14.7	30
1664	Synthesis and characterization of ZnO@RSDBC composites and their Photo-Oxidative degradation of Acid Orange 7 in water. <b>2020</b> , 1203, 127425		16
1663	Electrochemically activated PMS and PDS: Radical oxidation versus nonradical oxidation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123560	14.7	38
1662	Efficient decomplexation of heavy metal-EDTA complexes by Co <sup>2+</sup> /peroxymonosulfate process: The critical role of replacement mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123639	14.7	14
1661	Microwave-assisted Fe <sup>0</sup> -activated persulfate process for treating explosives in production wastewater. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123497	14.7	15
1660	Heterogeneous persulfate activation by nano-sized Mn <sub>3</sub> O <sub>4</sub> to degrade furfural from wastewater. <b>2020</b> , 298, 112088		26
1659	Catalytic ozonation for water and wastewater treatment: Recent advances and perspective. <b>2020</b> , 704, 135249		257

1658	Insights into mechanisms of UV/ferrate oxidation for degradation of phenolic pollutants: Role of superoxide radicals. <b>2020</b> , 244, 125490		43
1657	Heterogeneous activation of peroxymonosulfate by CoMgFe-LDO for degradation of carbamazepine: Efficiency, mechanism and degradation pathways. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123604	14.7	51
1656	Reduced graphene oxide-based composite membranes for in-situ catalytic oxidation of sulfamethoxazole operated in membrane filtration. <b>2020</b> , 236, 116275		24
1655	Fast determination of peroxymonosulfate by flow injection chemiluminescence using the Tb(III) ligand in micelle medium. <b>2020</b> , 35, 274-283		8
1654	Degradation of refractory organic compounds from dinitrodiazophenol containing industrial wastewater through UV/HO and UV/PS processes. <b>2020</b> , 27, 6042-6051		9
1653	Synthesis of novel Co <sub>3</sub> O <sub>4</sub> hierarchical porous nanosheets via corn stem and MOF-Co templates for efficient oxytetracycline degradation by peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123789	14.7	37
1652	Phosphorus-doped carbon fibers as an efficient metal-free bifunctional catalyst for removing sulfamethoxazole and chromium (VI). <b>2020</b> , 246, 125783		13
1651	Facile template synthesis of dumbbell-like Mn <sub>2</sub> O <sub>3</sub> with oxygen vacancies for efficient degradation of organic pollutants by activating peroxymonosulfate. <b>2020</b> , 10, 864-875		21
1650	Effective treatment of high-salinity landfill leachate using ultraviolet/ultrasonication/ peroxymonosulfate system. <b>2020</b> , 118, 591-599		18
1649	Revolutions in algal biochar for different applications: State-of-the-art techniques and future scenarios. <b>2020</b> , 31, 2591-2602		34
1648	Construction of yolk/shell Fe <sub>3</sub> O <sub>4</sub> @MgSiO <sub>3</sub> nanoreactor for enhanced Fenton-like reaction via spatial separation of adsorption sites and activation sites. <b>2020</b> , 113, 363-371		5
1647	Spatial separation of photo-generated carriers and enhanced photocatalytic performance on ZrO <sub>2</sub> catalysts via coupling with PPy. <b>2020</b> , 120, 108153		5
1646	Performance of ultraviolet/persulfate process in degrading artificial sweetener acesulfame. <b>2020</b> , 188, 109804		4
1645	Degradation of p-nitroaniline from aqueous solutions using ozonation/Mg-Al layered double hydroxides integrated with the sequencing batch moving bed biofilm reactor. <b>2020</b> , 113, 241-252		3
1644	A comparative study on phenazone degradation by sulfate radicals based processes. <b>2020</b> , 191, 110054		3
1643	Degradation of nitrobenzene-containing wastewater by sequential nanoscale zero valent iron-persulfate process. <b>2020</b> , 6, 910-910		8
1642	Activation of peroxymonosulfate using carbon black nano-spheres/calcium alginate hydrogel matrix for degradation of acetaminophen: Fe <sub>3</sub> O <sub>4</sub> co-immobilization and microbial community response. <b>2020</b> , 91, 240-251		21
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1640	Hydroxyl radical dominated elimination of plasticizers by peroxymonosulfate on metal-free boron: Kinetics and mechanisms. <b>2020</b> , 186, 116361		34
1639	Accelerated alkaline activation of peroxydisulfate by reduced rubidium tungstate nanorods for enhanced degradation of bisphenol A. <b>2020</b> , 7, 3547-3556		6
1638	Occurrence and fate of antibiotics, antibiotic resistant genes (ARGs) and antibiotic resistant bacteria (ARB) in municipal wastewater treatment plant: An overview. <b>2020</b> , 744, 140997		184
1637	Employing UV/p peroxydisulphate (PDS) activated by ferrous ion for the removal of toluene in aqueous environment: electrical consumption and kinetic study. <b>2020</b> , 1-18		1
1636	Phase change on stainless-steel mesh for promoting sulfate radical formation via peroxymonosulfate oxidation. <b>2020</b> , 278, 119333		9
1635	Persulfate oxidation for alternative sludge treatment and nutrient recovery: An assessment of technical and economic feasibility. <b>2020</b> , 272, 111007		7
1634	Peroxymonosulfate Activation by Fe-Co-O-Codoped Graphite Carbon Nitride for Degradation of Sulfamethoxazole. <b>2020</b> , 54, 10361-10369		128
1633	Catalytic hydrodechlorination and advanced oxidation processes of 2,4-dichlorophenoxyacetic acid over CMK-3 supported catalyst: The bi-functional effect of metal Pd. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126175	14.7	6
1632	Fe-doped biochar derived from waste sludge for degradation of rhodamine B via enhancing activation of peroxymonosulfate. <b>2020</b> , 261, 127616		32
1631	Individual and simultaneous degradation of sulfamethoxazole and trimethoprim by ozone, ozone/hydrogen peroxide and ozone/persulfate processes: A comparative study. <b>2020</b> , 189, 109889		19
1630	Activation of peroxymonosulfate by CuCo <sub>2</sub> O <sub>4</sub> -GO for efficient degradation of bisphenol A from aqueous environment. <b>2020</b> , 251, 117351		16
1629	Recent advances in application of graphitic carbon nitride-based catalysts for degrading organic contaminants in water through advanced oxidation processes beyond photocatalysis: A critical review. <b>2020</b> , 184, 116200		181
1628	rGO/persulfate metal-free catalytic system for the degradation of tetracycline: effect of reaction parameters. <b>2020</b> , 7, 075501		6
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1625	Synergistic Adsorption and Oxidation of Ciprofloxacin by Biochar Derived from Metal-Enriched Phytoremediation Plants: Experimental and Computational Insights. <b>2020</b> ,		35
1624	Perovskite and Spinel Catalysts for Sulfate Radical-Based Advanced Oxidation of Organic Pollutants in Water and Wastewater Systems. <b>2020</b> , 10, 1299		10
1623	Copper and sulphur co-doped titanium oxide nanoparticles with enhanced catalytic and photocatalytic properties. <b>2020</b> , 10, 6511-6524		4

1622	Zeolitic Imidazolate Framework-67@Cellulose aerogel for rapid and efficient degradation of organic pollutants. <b>2020</b> , 291, 121621	17
1621	Facile synthesis and synergistic mechanism of CoFeO@three-dimensional graphene aerogels towards peroxymonosulfate activation for highly efficient degradation of recalcitrant organic pollutants. <b>2020</b> , 749, 141466	19
1620	Visible-light-induced activation of peroxymonosulfate by TiO <sub>2</sub> nano-tubes arrays for enhanced degradation of bisphenol A. <b>2020</b> , 253, 117510	29
1619	Construction of Built-In Electric Field within Silver Phosphate Photocatalyst for Enhanced Removal of Recalcitrant Organic Pollutants. <b>2020</b> , 30, 2002918	59
1618	Sludge-derived biochar as efficient persulfate activators: Sulfurization-induced electronic structure modulation and disparate nonradical mechanisms. <b>2020</b> , 279, 119361	85
1617	FeO/MnO modified oxidized carbon nanotubes as peroxymonosulfate activator for organic pollutants degradation. <b>2020</b> , 580, 803-813	12
1616	Catalytic degradation of sulfamethoxazole by persulfate activated with magnetic graphitized biochar: Multiple mechanisms and variables effects. <b>2020</b> , 144, 143-157	15
1615	Enhancing peroxymonosulfate activation of Fe-Al layered double hydroxide by dissolved organic matter: Performance and mechanism. <b>2020</b> , 185, 116246	33
1614	Egg shell biochar-based green catalysts for the removal of organic pollutants by activating persulfate. <b>2020</b> , 745, 141095	27
1613	The effect of ozonation on the degradation of carbaryl in aqueous solution. <b>2020</b> , 55, 929-939	
1612	MOF-derived CoFe <sub>2</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> embedded in g-C <sub>3</sub> N <sub>4</sub> as high-efficient Z-scheme photocatalysts for enhanced degradation of emerging organic pollutants in the presence of persulfate. <b>2020</b> , 253, 117413	46
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1610	Decomposition of Carboxylic PFAS by Persulfate Activated by Silver under Ambient Conditions. <b>2020</b> , 146, 06020003	6
1609	Different non-radical oxidation processes of persulfate and peroxymonosulfate activation by nitrogen-doped mesoporous carbon. <b>2020</b> , 31, 2614-2618	27
1608	Analysis of reaction pathways and catalytic sites on metal-free porous biochar for persulfate activation process. <b>2020</b> , 261, 127747	20
1607	Stable and efficient metal-biochar supported catalyst: degradation of model pollutants through sulfate radical-based advanced oxidation processes. <b>2020</b> , 2, 319-328	0
1606	Application of copper tailings combined with persulfate for better removing methyl orange from wastewater. <b>2020</b> , 82, 1676-1686	1
1605	Facile Construction of a Copper-Containing Covalent Bond for Peroxymonosulfate Activation: Efficient Redox Behavior of Copper Species via Electron Transfer Regulation. <b>2020</b> , 12, 42790-42802	15

1604	Recent Progress of Photocatalytic Fenton-Like Process for Environmental Remediation. <b>2020</b> , 1,	7
1603	Influence of electrode configuration on electrokinetic-enhanced persulfate oxidation remediation of PAH-contaminated soil. <b>2020</b> , 27, 44355-44367	5
1602	Synthesis and characterization of a novel activated carbon-supported cobalt catalyst from biomass mixture for tetracycline degradation via persulfate activation. <b>2020</b> , 1	2
1601	Reduction Removal of Cr(VI) from Wastewater by CO <sub>2</sub> Deriving from Formate Anion Based on Activated Carbon Catalyzed Persulfate. <b>2020</b> , 36, 870-876	
1600	Oxidative degradation of Orange G in aqueous solution by persulfate activated with pyrite. <b>2020</b> , 82, 185-193	4
1599	A Review Study on Sulfate-Radical-Based Advanced Oxidation Processes for Domestic/Industrial Wastewater Treatment: Degradation, Efficiency, and Mechanism. <b>2020</b> , 8, 592056	42
1598	Heterogeneous activation of persulfate by ZnCo Fe O loaded on rice hull carbon for degrading bisphenol A.. <b>2020</b> , 10, 44551-44570	3
1597	Decolorization of high-concentration Reactive Red 2 in water using UV and persulfate in a 3-liter photoreactor. <b>2020</b> , 115, 169-174	3
1596	Stabilization of source-separated urine by heat-activated peroxydisulfate. <b>2020</b> , 749, 142213	2
1595	Kinetics and mechanism of sulfate radical- and hydroxyl radical-induced degradation of Bisphenol A in VUV/UV/peroxymonosulfate system. <b>2020</b> , 38, 101636	10
1594	Magnetic iron phosphide particles mediated peroxymonosulfate activation for highly efficient elimination of sulfonamide antibiotics. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125279	14.7 22
1593	Activated peroxydisulfate by sulfidated zero-valent iron for enhanced organic micropollutants removal from water. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125301	14.7 16
1592	Potential of the base-activated persulfate for polymer-plugging removal in low temperature reservoirs. <b>2020</b> , 189, 107000	4
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1590	The reaction of peroxydisulfate with phenols. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124742	14.7
1589	Effects of thermal modification of a biochar on persulfate activation and mechanisms of catalytic degradation of a pharmaceutical. <i>Chemical Engineering Journal</i> , <b>2020</b> , 399, 125377	14.7 32
1588	Boosting catalytic degradation efficiency by incorporation of MIL-53(Fe) with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanosheets. <b>2020</b> , 311, 113201	19
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1586	A new perspective of membrane fouling control by ultraviolet synergic ferrous iron catalytic persulfate (UV/Fe(II)/PS) as pretreatment prior to ultrafiltration. <b>2020</b> , 737, 139711		14
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1584	FexP/biochar composites induced oxygen-driven Fenton-like reaction for sulfamethoxazole removal: Performance and reaction mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125321	14.7	18
1583	Molecular-level comparison study on microwave irradiation-activated persulfate and hydrogen peroxide processes for the treatment of refractory organics in mature landfill leachate. <b>2020</b> , 397, 122785		32
1582	Turning thiophene contaminant into polymers from wastewater by persulfate and CuO. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125351	14.7	11
1581	Removal of Perfluorooctanesulfonic Acid in Water by Combining Zerovalent Iron Particles with Common Oxidants. <b>2020</b> , 37, 472-481		12
1580	CaMnO <sub>3</sub> perovskite nanocrystals for efficient peroxydisulfate activation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125638	14.7	19
1579	Efficient degradation of sulfamethoxazole by CuCo LDH and LDH@fibers composite membrane activating peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125676	14.7	45
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1577	Recycling of Fenton sludge containing Ni as an efficient catalyst for tetracycline degradation through peroxymonosulfate activation. <b>2020</b> , 268, 122174		19
1576	The role of carbonate in sulfamethoxazole degradation by peroxymonosulfate without catalyst and the generation of carbonate racial. <b>2020</b> , 398, 122827		30
1575	Efficient degradation of tetracycline by CoFeLa-layered double hydroxides catalyzed peroxymonosulfate: Synergistic effect of radical and nonradical pathways. <b>2020</b> , 398, 122884		61
1574	Efficient degradation of lomefloxacin by Co-Cu-LDH activating peroxymonosulfate process: Optimization, dynamics, degradation pathway and mechanism. <b>2020</b> , 399, 122966		30
1573	Degradation of norfloxacin in aqueous solution by ionizing irradiation: Kinetics, pathway and biological toxicity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125095	14.7	57
1572	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
1571	Change of disinfection byproducts formation potential of natural organic matter after exposure to persulphate and bicarbonate. <b>2020</b> , 182, 115970		2
1570	Anaerobic membrane bioreactors for treatment of emerging contaminants: A review. <b>2020</b> , 270, 110913		28
1569	Visible-light-excited humic acid for peroxymonosulfate activation to degrade bisphenol A. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125853	14.7	18



1568	In situ stable growth of FeOOH on g-C3N4 for deep oxidation of emerging contaminants by photocatalytic activation of peroxymonosulfate under solar irradiation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125872	14.7	29
1567	Reactive oxygen species generation in FeOCl nanosheets activated peroxymonosulfate system: Radicals and non-radical pathways. <b>2020</b> , 398, 123084		23
1566	Amorphous Co3O4 nanoparticles-decorated biochar as an efficient activator of peroxymonosulfate for the removal of sulfamethazine in aqueous solution. <b>2020</b> , 250, 117246		30
1565	Persulfate activation by nano zero-valent iron for the degradation of metoprolol in water: influencing factors, degradation pathways and toxicity analysis.. <b>2020</b> , 10, 20991-20999		10
1564	Enhanced catalytic oxidation of benzotriazole via peroxymonosulfate activated by CoFe2O4 supported onto nitrogen-doped three-dimensional graphene aerogels. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125897	14.7	18
1563	Nano-sized iron oxides supported on polyester textile to remove fluoroquinolones in hospital wastewater. <b>2020</b> , 7, 2156-2165		8
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1561	New insights into the reinforced reduction performance of Fe/C internal electrolysis activated by persulfate for p-nitrophenol removal. <b>2020</b> , 254, 126899		7
1560	Activation of persulfate by novel TiO2/FeOCl photocatalyst under visible light: Facile synthesis and high photocatalytic performance. <b>2020</b> , 250, 117268		44
1559	Enhanced thermal activation of peroxymonosulfate by activated carbon for efficient removal of perfluorooctanoic acid. <i>Chemical Engineering Journal</i> , <b>2020</b> , 399, 125722	14.7	24
1558	Efficient degradation of sulfamethoxazole by NiCoO modified expanded graphite activated peroxymonosulfate: Characterization, mechanism and degradation intermediates. <b>2020</b> , 399, 123103		37
1557	Fe-Activated Peroxymonosulfate Enhances the Degradation of Dibutyl Phthalate on Ground Quartz Sand. <b>2020</b> , 54, 9052-9061		19
1556	Nanostructured semiconductor supported iron catalysts for heterogeneous photo-Fenton oxidation: a review. <b>2020</b> , 8, 15513-15546		50
1555	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
1554	UVA/persulfate-driven nonylphenol polyethoxylate degradation: effect of process conditions. <b>2020</b> , 1-15		5
1553	Nanoconfinement-Mediated Water Treatment: From Fundamental to Application. <b>2020</b> , 54, 8509-8526		80
1552	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
1551	Photo-assisted peroxymonosulfate activation via 2D/2D heterostructure of TiC/g-CN for degradation of diclofenac. <b>2020</b> , 258, 127339		42

1550	Co nanoparticle-embedded N,O-codoped porous carbon nanospheres as an efficient peroxymonosulfate activator: singlet oxygen dominated catalytic degradation of organic pollutants. <b>2020</b> , 22, 15340-15353		10
1549	Catalytic activation of persulphate with Mn <sub>3</sub> O <sub>4</sub> nanoparticles for degradation of acid blue 113: process optimisation and degradation pathway. <b>2020</b> , 1-20		18
1548	Degradation of organic pollutants by Fe/N co-doped biochar via peroxymonosulfate activation: Synthesis, performance, mechanism and its potential for practical application. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125870	14.7	63
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1545	Insight into the mechanism of CuO activated persulfate with the assistance of bicarbonate for removing organic pollutants. <b>2020</b> , 37, 101403		4
1544	Facile synthesis of superparamagnetic ECD-MnFeO as a peroxymonosulfate activator for efficient removal of 2,4- dichlorophenol: structure, performance, and mechanism. <b>2020</b> , 394, 122528		34
1543	Synthesis of Spinel Ferrite MFeO (M = Co, Cu, Mn, and Zn) for Persulfate Activation to Remove Aqueous Organics: Effects of M-Site Metal and Synthetic Method. <b>2020</b> , 8, 177		18
1542	Thermally activated persulfate for the chemical oxidation of chlorinated organic compounds in groundwater. <b>2020</b> , 261, 110240		19
1541	Magnetic biochar supported MnO nanorod for adsorption enhanced degradation of 4-chlorophenol via activation of peroxydisulfate. <b>2020</b> , 724, 138278		27
1540	General synthesis of carbon and oxygen dual-doped graphitic carbon nitride via copolymerization for non-photochemical oxidation of organic pollutant. <b>2020</b> , 394, 122578		33
1539	Heterogeneous activation of persulfate for the degradation of bisphenol A with Ni <sub>2</sub> SnO <sub>4</sub> /RGO. <b>2020</b> , 44, 6355-6361		6
1538	Synthesis of porous nitrogen doped carbon cage from carbide for catalytic oxidation. <b>2020</b> , 163, 43-55		12
1537	New composite TiO <sub>2</sub> /natural gums for high efficiency in photodiscoloration process. <b>2020</b> , 46, 15534-15543		8
1536	Trace Cupric Species Triggered Decomposition of Peroxymonosulfate and Degradation of Organic Pollutants: Cu(III) Being the Primary and Selective Intermediate Oxidant. <b>2020</b> , 54, 4686-4694		105
1535	FeO/graphene aerogels: A stable and efficient persulfate activator for the rapid degradation of malachite green. <b>2020</b> , 251, 126402		34
1534	Manganese-oxidizing microbes and biogenic manganese oxides: characterization, Mn(II) oxidation mechanism and environmental relevance. <b>2020</b> , 19, 489-507		9
1533	Photodegradation of Butyl 4-Hydroxybenzoate in the Presence of Peroxides and Mediated by Dissolved Organic Matter. <b>2020</b> , 37, 497-508		2

1532	Feasibility study on applying the iron-activated persulfate system as a pre-treatment process for clofibric acid selective degradation in municipal wastewater. <b>2020</b> , 739, 140020		7
1531	Sulfamethoxazole degradation by visible light assisted peroxymonosulfate process based on nanohybrid manganese dioxide incorporating ferric oxide. <b>2020</b> , 278, 119297		53
1530	UV light-assisted persulfate activation by Cu <sub>0</sub> -Cu <sub>2</sub> O for the degradation of sulfamerazine. <b>2020</b> , 251, 117321		23
1529	The obvious advantage of amino-functionalized metal-organic frameworks: As a persulfate activator for bisphenol F degradation. <b>2020</b> , 741, 140464		18
1528	Aerobically digested sludge conditioning by Fe <sup>2+</sup> /citrate chelated-Fe <sup>2+</sup> activated peroxymonosulfate oxidation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125954	14.7	5
1527	A critical review on advanced oxidation processes for the removal of trace organic contaminants: A voyage from individual to integrated processes. <b>2020</b> , 260, 127460		40
1526	Galvanic oxidation processes (GOPs): An effective direct electron transfer approach for organic contaminant oxidation. <b>2020</b> , 743, 140828		5
1525	Efficient degradation of methyl orange in water via both radical and non-radical pathways using Fe-Co bimetal-doped MCM-41 as peroxymonosulfate activator. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 125881	14.7	48
1524	Application of UV-activated persulfate and peroxymonosulfate processes for the degradation of 1,2,3-trichlorobenzene in different water matrices. <b>2021</b> , 28, 59165-59179		3
1523	A review of recent developments in catalytic applications of biochar-based materials. <b>2020</b> , 162, 105036		42
1522	Red mud-activated peroxymonosulfate process for the removal of fluoroquinolones in hospital wastewater. <b>2020</b> , 184, 116171		12
1521	Degradation of Diclofenac Sodium by Pre-magnetization Fe <sub>0</sub> /Persulfate System: Efficiency and Degradation Pathway Study. <b>2020</b> , 231, 1		4
1520	Nitrogen-doped reduced graphene oxide (PVDF) nanocomposite membrane for persulfate activation and degradation of water organic micropollutants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126117	14.7	27
1519	Insight into the degradation of Orange G by persulfate activated with biochar modified by iron and manganese oxides: Synergism between Fe and Mn. <b>2020</b> , 37, 101470		10
1518	Advanced oxidative degradation of acetaminophen by carbon catalysts: Radical vs non-radical pathways. <b>2020</b> , 188, 109767		14
1517	Microwave irradiation activated persulfate and hydrogen peroxide for the treatment of mature landfill leachate effluent from a membrane bioreactor. <b>2020</b> , 250, 117111		13
1516	Efficient pollutant degradation via non-radical dominated pathway by self-regenerative Ru(bpy) <sub>3</sub> <sup>2+</sup> /peroxydisulfate under visible light. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125993	14.7	2
1515	Reactive species in advanced oxidation processes: Formation, identification and reaction mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126158	14.7	254

1514	Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator. <b>2020</b> , 271, 111022		18
1513	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
1512	Oxygen vacancies induced heterogeneous catalysis of peroxymonosulfate by Ni-doped AgFeO <sub>2</sub> materials: Evolution of reactive oxygen species and mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124371	14.7	45
1511	One-pot synthesis of magnetic CuO/Fe <sub>2</sub> O <sub>3</sub> /CuFe <sub>2</sub> O <sub>4</sub> nanocomposite to activate persulfate for levofloxacin removal: Investigation of efficiency, mechanism and degradation route. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124456	14.7	63
1510	CuCoO supported on activated carbon as a novel heterogeneous catalyst with enhanced peroxymonosulfate activity for efficient removal of organic pollutants. <b>2020</b> , 183, 109245		9
1509	Fate and role of fluorescence moieties in extracellular polymeric substances during biological wastewater treatment: A review. <b>2020</b> , 718, 137291		22
1508	Persulfate-Based Advanced Oxidation: Critical Assessment of Opportunities and Roadblocks. <b>2020</b> , 54, 3064-3081		605
1507	Elucidating the performance of an integrated laccase- and persulfate-assisted process for degradation of trace organic contaminants (TrOCs). <b>2020</b> , 6, 1069-1082		7
1506	An environmentally sustainable approach for online chemical cleaning of MBR with activated peroxymonosulfate. <b>2020</b> , 600, 117872		11
1505	Peroxymonosulfate enhancing visible light photocatalytic degradation of bezafibrate by Pd/g-C <sub>3</sub> N <sub>4</sub> catalysts: The role of sulfate radicals and hydroxyl radicals. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124532	14.7	43
1504	Degradation of sulfamethazine by persulfate activated with nanosized zero-valent copper in combination with ultrasonic irradiation. <b>2020</b> , 239, 116537		30
1503	Enhanced peroxymonosulfate activation by supported microporous carbon for degradation of tetracycline via non-radical mechanism. <b>2020</b> , 240, 116617		26
1502	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
1501	Efficient removal of ciprofloxacin in aqueous solutions by zero-valent metal-activated persulfate oxidation: A comparative study. <b>2020</b> , 35, 101199		13
1500	Persulfate-based degradation of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in aqueous solution: Review on influences, mechanisms and prospective. <b>2020</b> , 393, 122405		66
1499	Nitrogen-doped porous carbon encapsulating iron nanoparticles for enhanced sulfathiazole removal via peroxymonosulfate activation. <b>2020</b> , 250, 126300		14
1498	Piezo-activation of peroxymonosulfate for benzothiazole removal in water. <b>2020</b> , 393, 122448		47
1497	UV-C-activated persulfate oxidation of a commercially important fungicide: case study with iprodione in pure water and simulated tertiary treated urban wastewater. <b>2020</b> , 27, 22169-22183		2

1496	In-situ fabrication of nanoarchitected MOF filter for water purification. <b>2020</b> , 392, 122164		43
1495	Synthesis of FeCo alloy encapsulated nitrogen-doped graphitized carbon: High catalytic activation and low metal ion leaching in microwave assisted Fenton reaction. <b>2020</b> , 108, 64-70		3
1494	Enhanced degradation of PFOA in water by dielectric barrier discharge plasma in a coaxial cylindrical structure with the assistance of peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124381	14.7	29
1493	Preparation of nitrogen-containing carbon using a one-step thermal polymerization method for activation of peroxymonosulfate to degrade bisphenol A. <b>2020</b> , 248, 126053		13
1492	In situ nitrogen functionalization of biochar via one-pot synthesis for catalytic peroxymonosulfate activation: Characteristics and performance studies. <b>2020</b> , 241, 116702		38
1491	Adsorbable organic halogens formed during treatment of Cl <sup>-</sup> -containing wastewater by sulfate and hydroxyl radical-based advanced oxidation processes. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124457	14.7	8
1490	Relative contribution of ferryl ion species (Fe(IV)) and sulfate radical formed in nanoscale zero valent iron activated peroxydisulfate and peroxymonosulfate processes. <b>2020</b> , 172, 115504		89
1489	Anaerobically-digested sludge disintegration by transition metal ions-activated peroxymonosulfate (PMS): Comparison between Co, Cu, Fe and Mn. <b>2020</b> , 713, 136530		28
1488	Comparing biochar- and bentonite-supported Fe-based catalysts for selective degradation of antibiotics: Mechanisms and pathway. <b>2020</b> , 183, 109156		38
1487	Sulfate Radical Scavenging by Mineral Surfaces in Persulfate-Driven Oxidation Systems: Reaction Rate Constants and Implications. <b>2020</b> , 54, 1955-1962		13
1486	Application of amine-functionalized Fe <sub>3</sub> O <sub>4</sub> nanoparticles with HPEI for effective humic acid removal from aqueous solution: Modeling and optimization. <b>2020</b> , 37, 93-104		21
1485	Novel ZnO/CuBi <sub>2</sub> O <sub>4</sub> heterostructures for persulfate-assisted photocatalytic degradation of dye contaminants under visible light. <b>2020</b> , 391, 112397		38
1484	Molten salt induced nitrogen-doped biochar nanosheets as highly efficient peroxymonosulfate catalyst for organic pollutant degradation. <b>2020</b> , 260, 114053		30
1483	Catalytic degradation of Acid Orange 7 in water by persulfate activated with CuFe <sub>2</sub> O <sub>4</sub> @RSDBC. <b>2020</b> , 7, 016529		11
1482	Freezing-enhanced non-radical oxidation of organic pollutants by peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124226	14.7	11
1481	Visible light-induced activation of peroxymonosulfate in the presence of ferric ions for the degradation of organic pollutants. <b>2020</b> , 240, 116620		16
1480	Activation of sulfite autoxidation with CuFeO prepared by MOF-templated method for abatement of organic contaminants. <b>2020</b> , 260, 114038		26
1479	Efficient peroxymonosulfate activation and bisphenol A degradation derived from mineral-carbon materials: Key role of double mineral-templates. <b>2020</b> , 267, 118701		32

1478	Photolysis and photocatalysis of haloacetic acids in water: A review of kinetics, influencing factors, products, pathways, and mechanisms. <b>2020</b> , 391, 122143		24
1477	Significant role of high-valent iron-oxo species in the degradation and detoxification of indomethacine. <b>2020</b> , 251, 126451		8
1476	Biochar-activated persulfate for organic contaminants removal: Efficiency, mechanisms and influencing factors. <b>2020</b> , 198, 110653		21
1475	Catalytic activation of O by Al-CNTs-CuO composite for Fenton-like degradation of sulfamerazine antibiotic at wide pH range. <b>2020</b> , 396, 122751		23
1474	Oxidation of Congo red by thermally activated persulfate process: Kinetics and transformation pathway. <b>2020</b> , 244, 116839		21
1473	Copper phosphide: A dual-catalysis-center catalyst for the efficient activation of peroxydisulfate and degradation of Orange II. <b>2020</b> , 248, 117004		17
1472	Rapid and efficient removal of naproxen from water by CuFeO with peroxymonosulfate. <b>2020</b> , 27, 21542-21551		
1471	Facet- and defect-dependent activity of perovskites in catalytic evolution of sulfate radicals. <b>2020</b> , 272, 118972		48
1470	Nonradical oxidation in persulfate activation by graphene-like nanosheets (GNS): Differentiating the contributions of singlet oxygen ( $^1O_2$ ) and sorption-dependent electron transfer. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124725	14.7	47
1469	Oxidative degradation of polycyclic aromatic hydrocarbons in contaminated industrial soil using chlorine dioxide. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124857	14.7	17
1468	Efficient inactivation of bacteria in ballast water by adding potassium peroxymonosulfate alone: Role of halide ions. <b>2020</b> , 253, 126656		3
1467	Limitations and prospects of sulfate-radical based advanced oxidation processes. <b>2020</b> , 8, 103849		50
1466	Systematic activation of potassium peroxydisulfate with ZIF-8 via sono-assisted catalytic process: Mechanism and ecotoxicological analysis. <b>2020</b> , 308, 113018		57
1465	Experimental and simulation investigations of UV/persulfate treatment in presence of bromide: Effects on degradation kinetics, formation of brominated disinfection byproducts and bromate. <b>2020</b> , 242, 116767		9
1464	Monitoring and Ecotoxicity Assessment of Emerging Contaminants in Wastewater Discharge in the City of Prague (Czech Republic). <b>2020</b> , 12, 1079		10
1463	Sulphate radical oxidation of benzophenone: kinetics, mechanisms and influence of water matrix anions. <b>2021</b> , 42, 4324-4332		0
1462	In-situ construction of Co(OH) <sub>2</sub> nanoparticles decorated urchin-like WO <sub>3</sub> for highly efficient degradation of sulfachloropyridazine via peroxymonosulfate activation: Intermediates and DFT calculation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125186	14.7	25
1461	Fe-sulfite complexation enhanced persulfate Fenton-like process for antibiotic degradation based on response surface optimization. <b>2020</b> , 727, 138773		40

1460	High-efficiency degradation of organic pollutants with Fe, N co-doped biochar catalysts via persulfate activation. <b>2020</b> , 397, 122764		94
1459	Peroxydisulfate activation by in-situ synthesized Fe <sub>3</sub> O <sub>4</sub> nanoparticles for degradation of atrazine: Performance and mechanism. <b>2020</b> , 247, 116925		13
1458	Metal-free carbocatalysis for persulfate activation toward nonradical oxidation: Enhanced singlet oxygen generation based on active sites and electronic property. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125107	14.7	30
1457	Defective, oxygen-functionalized multi-walled carbon nanotubes as an efficient peroxymonosulfate activator for degradation of organic pollutants. <b>2020</b> , 396, 122757		42
1456	Facile preparation of iron oxide doped Fe-MOFs-MW as robust peroxydisulfate catalyst for emerging pollutants degradation. <b>2020</b> , 254, 126798		21
1455	Facile synthesis of metal free perylene imide-carbon nitride membranes for efficient photocatalytic degradation of organic pollutants in the presence of peroxymonosulfate. <b>2020</b> , 278, 118981		36
1454	Accelerated degradation of bisphenol A induced by the interaction of EGCG and Cu(II) in Cu(II)/EGCG/peroxymonosulfate process. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125134	14.7	23
1453	Persulfate enhanced electrochemical oxidation of highly toxic cyanide-containing organic wastewater using boron-doped diamond anode. <b>2020</b> , 252, 126499		20
1452	Formation and control of bromate in sulfate radical-based oxidation processes for the treatment of waters containing bromide: A critical review. <b>2020</b> , 176, 115725		29
1451	Highly efficient removal of p-arsanilic acid with Fe(II)/persoxydisulfate under near-neutral conditions. <b>2020</b> , 177, 115752		24
1450	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. <b>2020</b> , 54, 6438-6447		188
1449	Sulfamethoxazole degradation by the CuOx/persulfate system. <b>2021</b> , 361, 139-145		15
1448	Synergistic mechanism and degradation kinetics for atenolol elimination via integrated UV/ozone/peroxymonosulfate process. <b>2021</b> , 407, 124393		7
1447	Degradation of spiramycin by thermally activated peroxydisulfate: Kinetics study, oxidation products and acute toxicity. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127255	14.7	5
1446	Co <sub>7</sub> Fe <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> @C Lamellar composites derived from CoBe LDH/PVA as an effective heterogeneous activator of peroxymonosulfate. <b>2021</b> , 854, 157244		10
1445	Determination of total oxidizable precursors in foam surfactants and foam contaminated water based on UV-activated persulfate oxidation. <b>2021</b> , 763, 142943		5
1444	MOF-derived CoO-C@FeOOH as an efficient catalyst for catalytic ozonation of norfloxacin. <b>2021</b> , 403, 123697		44
1443	Performance and mechanisms of sulfadiazine removal using persulfate activated by FeO@CuO hollow spheres. <b>2021</b> , 262, 127845		15

1442	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
1441	Rapid microwave synthesis of Fe <sub>3</sub> O <sub>4</sub> -PVP@ZIF-67 as highly effective peroxymonosulfate catalyst for degradation of bisphenol F and its mechanism analysis. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126453	14.7	23
1440	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
1439	Fenton-like degradation of sulfamethoxazole in Cu <sub>0</sub> /Zn <sub>0</sub> -air system over a broad pH range: Performance, kinetics and mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126320	14.7	22
1438	Developing a solar photothermal method for peroxydisulfate activation for water purification: Taking degradation of sulfamethoxazole as an example. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126324	14.7	12
1437	Enhanced activation of peroxydisulfate by strontium modified BiFeO <sub>3</sub> perovskite for ciprofloxacin degradation. <b>2021</b> , 99, 249-259		12
1436	New insights of metal free 2D graphitic carbon nitride for photocatalytic degradation of bisphenol A. <b>2021</b> , 402, 123509		30
1435	Heterogeneous activation of persulfate by lanthanum strontium cobaltite for sulfamethoxazole degradation. <b>2021</b> , 361, 130-138		11
1434	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 a nonradical oxidation process. <b>2021</b> , 282, 119585		54
1433	Surface-active MnFeO@C cubes as enhanced peroxymonosulfate activators for efficient degradation of bisphenol A. <b>2021</b> , 538, 148008		9
1432	One-pot thermal polymerization route to prepare N-deficient modified g-C <sub>3</sub> N <sub>4</sub> for the degradation of tetracycline by the synergistic effect of photocatalysis and persulfate-based advanced oxidation process. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126844	14.7	96
1431	Degradation of acetaminophen by activated peroxymonosulfate using Co(OH) <sub>2</sub> hollow microsphere supported titanate nanotubes: Insights into sulfate radical production pathway through CoOH <sup>+</sup> activation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126877	14.7	58
1430	A critical review on the mechanisms of persulfate activation by iron-based materials: Clarifying some ambiguity and controversies. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127078	14.7	33
1429	CoMn <sub>2</sub> O <sub>4</sub> embedded hollow activated carbon nanofibers as a novel peroxymonosulfate activator. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 127158	14.7	22
1428	Application of iron-based materials in heterogeneous advanced oxidation processes for wastewater treatment: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127191	14.7	70
1427	Dramatically enhanced degradation of recalcitrant organic contaminants in MgO/Fe(III) Fenton-like system by organic chelating agents. <b>2021</b> , 192, 110242		5
1426	Assessment of degradation characteristic and mineralization efficiency of norfloxacin by ionizing radiation combined with Fenton-like oxidation. <b>2021</b> , 404, 124172		25
1425	Preparation of magnetic biochar and its application in catalytic degradation of organic pollutants: A review. <b>2021</b> , 765, 142673		24



1424	Activation of peroxymonosulfate by CoFeNi layered double hydroxide/graphene oxide (LDH/GO) for the degradation of gatifloxacin. <b>2021</b> , 255, 117685		20
1423	Peracetic acid-based advanced oxidation processes for decontamination and disinfection of water: A review. <b>2021</b> , 188, 116479		76
1422	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
1421	Removal of 2,6-dichlorophenol in water by CuO activated peroxymonosulfate: Efficiency, mechanism and degradation pathway. <b>2021</b> , 254, 117630		11
1420	Pyrite-activated persulfate for simultaneous 2,4-DCP oxidation and Cr(VI) reduction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126758	14.7	50
1419	Progress and challenges of metal-organic frameworks-based materials for SR-AOPs applications in water treatment. <b>2021</b> , 263, 127672		50
1418	Heterogeneous catalytic oxidation degradation of BPAF by peroxymonosulfate active with manganic manganous oxide: Mineralization, mechanism and degradation pathways. <b>2021</b> , 263, 127950		4
1417	Fenton/Fenton-like processes with in-situ production of hydrogen peroxide/hydroxyl radical for degradation of emerging contaminants: Advances and prospects. <b>2021</b> , 404, 124191		126
1416	Effect of borate buffer on organics degradation with unactivated peroxymonosulfate: Influencing factors and mechanisms. <b>2021</b> , 256, 117841		10
1415	Tuning Lewis acidity of iron-based metal-organic frameworks for enhanced catalytic ozonation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 127075	14.7	34
1414	Nonradicals induced degradation of organic pollutants by peroxydisulfate (PDS) and peroxymonosulfate (PMS): Recent advances and perspective. <b>2021</b> , 765, 142794		69
1413	Degradation of sulfamethoxazole by peroxymonosulfate activated by waste eggshell supported Ag <sub>2</sub> O-Ag nanoparticles. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126719	14.7	18
1412	Application of biochar for the remediation of polluted sediments. <b>2021</b> , 404, 124052		26
1411	Efficient transformation of DDT with peroxymonosulfate activation by different crystallographic MnO. <b>2021</b> , 759, 142864		13
1410	Mixed oxidation of aqueous nonylphenol and triclosan by thermally activated persulfate: Reaction kinetics and formation of co-oligomerization products. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126396	14.7	45
1409	Thermal removal of partial nitrogen atoms in N-doped graphene for enhanced catalytic oxidation. <b>2021</b> , 585, 640-648		9
1408	A review of the characteristics of Fenton and ozonation systems in landfill leachate treatment. <b>2021</b> , 762, 143131		50
1407	Degradation of aqueous bisphenol A in the CoCN/Vis/PMS system: Catalyst design, reaction kinetic and mechanism analysis. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127228	14.7	27

1406	Integrated remediation for organic-contaminated site by forcing running-water to modify alkali-heat/persulfate via oxidation process transfer. <b>2021</b> , 262, 128352		8
1405	Nest-like Co <sub>3</sub> O <sub>4</sub> and PdO /Co <sub>3</sub> O <sub>4</sub> synthesized via metal organic framework with cyclodextrin for catalytic removal of Bisphenol A by persulfate. <b>2021</b> , 255, 117718		4
1404	Insights into catalytic activation of peroxymonosulfate for carbamazepine degradation by MnO nanoparticles in-situ anchored titanate nanotubes: Mechanism, ecotoxicity and DFT study. <b>2021</b> , 402, 123779		49
1403	Degradation of aqueous atrazine using persulfate activated by electrochemical plasma coupling with microbubbles: removal mechanisms and potential applications. <b>2021</b> , 403, 124087		21
1402	Sulfite activation and tetracycline removal by rectangular copper oxide nanosheets with dominantly exposed (0 0 1) reactive facets: Performance, degradation pathway and mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126693	14.7	26
1401	Remediation of HCHs-contaminated sediments by chemical oxidation treatments. <b>2021</b> , 751, 141754		14
1400	Efficient degradation of organic dye using Ni-MOF derived NiCo-LDH as peroxymonosulfate activator. <b>2021</b> , 271, 128509		15
1399	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
1398	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
1397	Iron-based catalysts for persulfate-based advanced oxidation process: Microstructure, property and tailoring. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127845	14.7	17
1396	Iron-based persulfate activation process for environmental decontamination in water and soil. <b>2021</b> , 265, 129057		32
1395	Tourmaline synergized with persulfate for degradation of sulfadiazine: Influencing parameters and reaction mechanism. <b>2021</b> , 257, 117893		9
1394	Heterogeneous activation of peroxymonosulfate by GO-CoFe <sub>2</sub> O <sub>4</sub> for degradation of reactive black 5 from aqueous solutions: Optimization, mechanism, degradation intermediates and toxicity. <b>2021</b> , 327, 114838		5
1393	Application of zero-valent iron/sulfite system for aerobically digested sludge conditioning. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127650	14.7	0
1392	Synthesis strategies and emerging mechanisms of metal-organic frameworks for sulfate radical-based advanced oxidation process: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127863	14.7	41
1391	Activation of peroxymonosulfate by phosphite: Kinetics and mechanism for the removal of organic pollutants. <b>2021</b> , 266, 129016		9
1390	Ibuprofen degradation using a Co-doped carbon matrix derived from peat as a peroxymonosulphate activator. <b>2021</b> , 193, 110564		12
1389	Thermocatalytic persulfate activation for metronidazole removal in the continuous operation. <b>2021</b> , 258, 118055		6

1388	Synergistically enhanced heterogeneous activation of persulfate for aqueous carbamazepine degradation using FeO@SBA-15. <b>2021</b> , 760, 144027		9
1387	Galvanic corrosion of zero-valent iron to intensify Fe <sup>2+</sup> generation for peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128023	14.7	3
1386	The practical application and electron transfer mechanism of SR-Fenton activation by FeOCl. <b>2021</b> , 47, 795-811		6
1385	Waste valorization: Transforming the fishbone biowaste into biochar as an efficient persulfate catalyst for degradation of organic pollutant. <b>2021</b> , 291, 125225		12
1384	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. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 127738	14.7	7
1383	Activation of peroxydisulfate and peroxymonosulfate by ultrasound with different frequencies: Impact on ibuprofen removal efficient, cost estimation and energy analysis. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127487	14.7	26
1382	Catalytic Oxidation of Dyeing Wastewater by Copper Oxide Activating Persulfate: Performance, Mechanism and Application. <b>2021</b> , 15, 1-10		5
1381	Construction of piezoelectric BaTiO <sub>3</sub> /MoS <sub>2</sub> heterojunction for boosting piezo-activation of peroxymonosulfate. <b>2021</b> , 32, 2052-2056		45
1380	Catalytic ozonation of norfloxacin using CoO/C composite derived from ZIF-67 as catalyst. <b>2021</b> , 265, 129047		17
1379	Uncertainty and misinterpretation over identification, quantification and transformation of reactive species generated in catalytic oxidation processes: A review. <b>2021</b> , 408, 124436		65
1378	Mechanisms of persulfate activation on biochar derived from two different sludges: Dominance of their intrinsic compositions. <b>2021</b> , 408, 124454		11
1377	Transformation of acetaminophen in solution containing both peroxymonosulfate and chlorine: Performance, mechanism, and disinfection by-product formation. <b>2021</b> , 189, 116605		13
1376	What is the role of light in persulfate-based advanced oxidation for water treatment?. <b>2021</b> , 189, 116627		73
1375	Combination of hydrodynamic cavitation and SR-AOPs for simultaneous degradation of BTEX in water. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128081	14.7	32
1374	Trace Cu(II) can enhance the degradation of Orange II in Fe(II)/hydroxylamine/persulfate system. <b>2021</b> , 9, 104907		3
1373	Novel onion-like carbon structures modified with iron oxide as photocatalysts for the degradation of persistent pollutants. <b>2021</b> , 9, 104934		7
1372	Improving the microalgae inactivating efficacy of ultraviolet ballast water treatment in combination with hydrogen peroxide or peroxymonosulfate salt. <b>2021</b> , 162, 111886		6
1371	A review of the innovations in metal- and carbon-based catalysts explored for heterogeneous peroxymonosulfate (PMS) activation, with focus on radical vs. non-radical degradation pathways of organic contaminants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 127957	14.7	97

1370	Graphene-based catalytic membranes for water treatment [A review. <b>2021</b> , 9, 104930		8
1369	Enhanced degradation of 2,4,6-trichlorophenol by activated peroxymonosulfate with sulfur doped copper manganese bimetallic oxides. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128121	14.7	7
1368	Combined alginate-humic acid fouling mechanism and mitigation during microfiltration: Effect of alginate viscosity. <b>2021</b> , 39, 101852		3
1367	High active amorphous Co(OH) <sub>2</sub> nanocages as peroxymonosulfate activator for boosting acetaminophen degradation and DFT calculation. <b>2021</b> , 32, 1814-1818		20
1366	Activation of persulfate by nanoscale zero-valent iron loaded porous graphitized biochar for the removal of 17 $\beta$ -Estradiol: Synthesis, performance and mechanism. <b>2021</b> , 588, 776-786		20
1365	Efficient activation of peroxymonosulfate and degradation of Orange G in iron phosphide prepared by pickling waste liquor. <b>2021</b> , 269, 129398		7
1364	Development of a VUV-UVC/p peroxymonosulfate, continuous-flow Advanced Oxidation Process for surface water disinfection and Natural Organic Matter elimination: Application and mechanistic aspects. <b>2021</b> , 408, 124634		5
1363	Non-radical reactions in persulfate-based homogeneous degradation processes: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127818	14.7	20
1362	An approach towards Zero-Waste wastewater technology: Fluoxetine adsorption on biochar and removal by the sulfate radical. <b>2021</b> , 268, 129318		7
1361	Degradation of norfloxacin by hydroxylamine enhanced fenton system: Kinetics, mechanism and degradation pathway. <b>2021</b> , 270, 129408		20
1360	Sulfate radical-based removal of chloride ion from strongly acidic wastewater: Kinetics and mechanism. <b>2021</b> , 410, 124540		7
1359	Activation of peroxydisulfate by a novel Cu-CuO@CNTs composite for 2, 4-dichlorophenol degradation. <b>2021</b> , 754, 141883		20
1358	Effect of salinity on preconcentration of contaminants of emerging concern by nanofiltration: Application of solar photo-Fenton as a tertiary treatment. <b>2021</b> , 756, 143593		9
1357	Co/N co-doped carbonaceous polyhedron as efficient peroxymonosulfate activator for degradation of organic pollutants: Role of cobalt. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127921	14.7	27
1356	Superior performance of ZnCoOx/p peroxymonosulfate system for organic pollutants removal by enhancing singlet oxygen generation: The effect of oxygen vacancies. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128150	14.7	27
1355	Enhanced oxidation of sulfadiazine by two-stage ultrasound assisted zero-valent iron catalyzed persulfate process: Factors and pathways. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128152	14.7	5
1354	FeO nanoparticles three-dimensional electro-p peroxydisulfate for improving tetracycline degradation. <b>2021</b> , 268, 129315		49
1353	Synergistic catalysis of Fe <sub>3</sub> O <sub>4</sub> /CuO bimetallic catalyst derived from Prussian blue analogues for the efficient decomposition of various organic pollutants. <b>2021</b> , 540, 110974		11

1352	Successive non-radical and radical process of peroxymonosulfate-based oxidation using various activation methods for enhancing mineralization of sulfamethoxazole. <b>2021</b> , 263, 127964		5
1351	Current progress in degradation and removal methods of polybrominated diphenyl ethers from water and soil: A review. <b>2021</b> , 403, 123674		37
1350	Sugarcane biochar as novel catalyst for highly efficient oxidative removal of organic compounds in water. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126895	14.7	10
1349	Degradation of various thiol collectors in simulated and real mineral processing wastewater of sulfide ore in heterogeneous modified manganese slag/PMS system. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127478	14.7	8
1348	Synergistic heat/UV activated persulfate for the treatment of nanofiltration concentrated leachate. <b>2021</b> , 208, 111522		8
1347	Ferrous-activated persulfate oxidation of triclosan in soil and groundwater: The roles of natural mineral and organic matter. <b>2021</b> , 762, 143092		7
1346	Enhanced defect oxygen of LaFeO <sub>3</sub> /GO hybrids in promoting persulfate activation for selective and efficient elimination of bisphenol A in food wastewater. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 126890	14.7	23
1345	Influence of surface functionalities of pyrogenic carbonaceous materials on the generation of reactive species towards organic contaminants: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 127066	14.7	30
1344	Iodometric spectrophotometric determination of peroxydisulfate in hydroxylamine-involved AOPs: 15 min or 15 s for oxidative coloration?. <b>2020</b> , 272, 128577		11
1343	Aqueous degradation of artificial sweeteners saccharin and neotame by metal organic framework material. <b>2021</b> , 761, 143181		8
1342	Degradation and mineralization of ofloxacin by ozonation and peroxone (O <sub>2</sub> /HO) process. <b>2021</b> , 269, 128775		26
1341	Oxidative removal of antibiotic resistant E. coli by sulfidated zero-valent iron: Homogeneous vs heterogeneous activation. <b>2021</b> , 408, 124411		4
1340	Removal of Acid Yellow 17 from Textile Wastewater by Adsorption and Heterogeneous Persulfate Oxidation. <b>2020</b> , 18, 1-16		2
1339	Degradation of petroleum hydrocarbons in soil via advanced oxidation process using peroxymonosulfate activated by nanoscale zero-valent iron. <b>2021</b> , 270, 128627		13
1338	Carbon quantum dots decorated heteroatom co-doped core-shell Fe@POCN for degradation of tetracycline via multiply synergistic mechanisms. <b>2021</b> , 268, 128806		8
1337	Preparation of biochar and biochar composites and their application in a Fenton-like process for wastewater decontamination: A review. <b>2021</b> , 754, 142104		81
1336	An Adsorption-Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. <b>2021</b> , 1, 145-156		10
1335	Synergistic photocatalytic and Fenton-like degradation of organic contaminants using peroxymonosulfate activated by CoFeO <sub>4</sub> @-CN composite. <b>2021</b> , 42, 2240-2253		20

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- 1331 A review of integrated advanced oxidation processes and biological processes for organic pollutant removal. 1-43 15
- 1330 Single-atom catalysis in advanced oxidation processes for environmental remediation. **2021**, 50, 5281-5322 164
- 1329 Study on the Co-doped CuO/Visible Light Synergistic Activation of PMS for Degradation of Rhodamine B and its Mechanism. **2021**, 90
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- 1321 In situ chemical oxidation: peroxide or persulfate coupled with membrane technology for wastewater treatment. **2021**, 9, 11944-11960 21
- 1320 Persulfate in Remediation of Soil and Groundwater Contaminated by Organic Compounds. **2021**, 221-262 1
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1316	Kinetics and reaction mechanism of photochemical degradation of diclofenac by UV-activated peroxymonosulfate.. <b>2021</b> , 11, 6804-6817	7
1315	Magnetic recyclable Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> nanocomposite with a dual Z-scheme charge transfer pathway for quick photo-Fenton degradation of organic pollutants. <b>2021</b> , 11, 3084-3097	11
1314	Au@Ag bimetallic nanoparticles deposited on palygorskite in the presence of TiO <sub>2</sub> for enhanced photodegradation activity through synergistic effect. <b>2021</b> , 28, 23995-24007	8
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1306	Graphene-Based Composites as Catalysts for the Degradation of Pharmaceuticals. <b>2021</b> , 18,	5
1305	Synthesis and application of Au NPs-chitosan nanocomposite in the treatment of acute myeloid leukemia in vitro and in vivo. <b>2021</b> , 14, 102929	1
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1300	The Integration of Electrokinetics and In Situ Chemical Oxidation Processes for the Remediation of Organically Polluted Soils. <b>2021</b> , 479-503	
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1298	Efficient and selective catalytic hydroxylation of unsaturated plant oils: a novel method for producing anti-pathogens. <b>2021</b> , 15, 20		1
1297	Post-treatment of real municipal wastewater effluents by means of granular activated carbon (GAC) based catalytic processes: A focus on abatement of pharmaceutically active compounds. <b>2021</b> , 192, 116833		8
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1294	Persulfate enhanced photoelectrochemical oxidation of organic pollutants using self-doped TiO <sub>2</sub> nanotube arrays: Effect of operating parameters and water matrix. <b>2021</b> , 191, 116803		6
1293	Nanoscale Zero-Valent Iron Supported on Carbon Nitride as a Peroxymonosulfate Activator for the Efficient Degradation of Paraxylene. 1		2
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1287	Enhancement of the electro-activated persulfate process in dye removal using graphene oxide nanoparticle. <b>2021</b> , 83, 2169-2182		3
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1284	Nonradical oxidation processes in PMS-based heterogeneous catalytic system: Generation, identification, oxidation characteristics, challenges response and application prospects. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128312	14.7	38
1283	Construction of novel in-situ photo-Fenton system based on modified g-CN composite photocatalyst. <b>2021</b> , 195, 110785		7
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1278	Removal Kinetics of Four Leacher Herbicides Through Solar Heterogeneous Photocatalysis as Influenced by Water Matrix Components. <b>2021</b> , 106, 989-995	0
1277	Fine-Tuning Radical/Nonradical Pathways on Graphene by Porous Engineering and Doping Strategies. <b>2021</b> , 11, 4848-4861	24
1276	Synthesis of Bi <sub>2</sub> MoO <sub>6</sub> and Activating Peroxymonosulfate to Enhance Photocatalytic Activity under Visible Light Irradiation. <b>2021</b> , 56, 2000219	1
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1268	In situ N-doped carbon-coated mulberry-like cobalt manganese oxide boosting for visible light driving photocatalytic degradation of pharmaceutical pollutants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128497	14.7 15
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1266	High visible-light catalytic activity of Bis-PDI-T@TiO <sub>2</sub> for activating persulfate toward efficient degradation of carbamazepine. <b>2021</b> , 263, 118384	10
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1259	Degradation of organic dyes by peroxymonosulfate activated with water-stable iron-based metal organic frameworks. <b>2021</b> , 589, 298-307		17
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1256	Ubiquitous Production of Organosulfates During Treatment of Organic Contaminants with Sulfate Radicals. <b>2021</b> , 8, 574-580		7
1255	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
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1252	Different activation methods in sulfate radical-based oxidation for organic pollutants degradation: Catalytic mechanism and toxicity assessment of degradation intermediates. <b>2021</b> , 772, 145522		31
1251	Sulfite-based advanced oxidation and reduction processes for water treatment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 414, 128872	14.7	45
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1236	Layered double hydroxides and related hybrid materials for removal of pharmaceutical pollutants from water. <b>2021</b> , 288, 112399	8
1235	A meta-analysis of the scientific literature on (photo)Fenton and persulfate advanced oxidation processes: Where do we stand and where are we heading to?. <b>2021</b> , 29, 100456	6
1234	Cu/Cu cycle promoted PMS decomposition with the assistance of Mo for the degradation of organic pollutant. <b>2021</b> , 411, 125050	27
1233	The Lord of the Chemical Rings: Catalytic Synthesis of Important Industrial Epoxide Compounds. <b>2021</b> , 11, 765	7
1232	Evaluation of peroxymonosulfate/O <sub>3</sub> /UV process on a real polluted water with landfill leachate: Feasibility and comparative study. <b>2021</b> , 38, 1416-1424	10
1231	Biochar for the Management of Nutrient Impoverished and Metal Contaminated Soils: Preparation, Applications, and Prospects. <b>2021</b> , 21, 2191-2213	15
1230	Highly efficient catalysts of phytic acid-derivative cobalt phosphide encapsulated in N, P-codoped carbon for activation of peroxymonosulfate in norfloxacin degradation. <b>2021</b> , 264, 118367	5
1229	Electrochemically-based hybrid oxidative technologies for the treatment of micropollutants in drinking water. <i>Chemical Engineering Journal</i> , <b>2021</b> , 414, 128531	14-7 9
1228	Peroxymonosulfate activation by $\beta$ -MnO <sub>2</sub> /MnFe <sub>2</sub> O <sub>4</sub> for norfloxacin degradation: Efficiency and mechanism. <b>2021</b> , 153, 110029	6
1227	Engineering carbon nanocatalysts towards efficient degradation of emerging organic contaminants via persulfate activation: A review. <b>2021</b> , 33, 1-1	13

1226	Water stable SiO-coated Fe-MOF-74 for aqueous dimethyl phthalate degradation in PS activated medium. <b>2021</b> , 411, 125194		12
1225	Melamine-cyanurate supramolecule induced graphitic N-rich graphene for singlet oxygen-dominated peroxymonosulfate activation to efficiently degrade organic pollutants. <b>2021</b> , 265, 118474		13
1224	Fe(II) Redox Chemistry in the Environment. <b>2021</b> , 121, 8161-8233		37
1223	Efficient destruction of emerging contaminants in water by UV/S(IV) process with natural reoxygenation: Effect of pH on reactive species. <b>2021</b> , 198, 117143		7
1222	Effective degradation of 2,4-dihydroxybenzophenone by zero-valent iron powder (Fe)-activated persulfate in aqueous solution: Kinetic study, product identification and theoretical calculations. <b>2021</b> , 771, 144743		31
1221	Magnetic CoFeO nanocrystals derived from MIL-101 (Fe/Co) for peroxymonosulfate activation toward degradation of chloramphenicol. <b>2021</b> , 272, 129567		13
1220	Efficient persulfate activation by hematite nanocrystals for degradation of organic pollutants under visible light irradiation: Facet-dependent catalytic performance and degradation mechanism. <b>2021</b> , 286, 119883		63
1219	Synthesis of nano-FeS and its application as an effective activator of ozone and peroxydisulfate in the electrochemical process for ofloxacin degradation: A comparative study. <b>2021</b> , 274, 129772		8
1218	Manganese-Based Micro/Nanomotors: Synthesis, Motion, and Applications. <b>2021</b> , e2100927		6
1217	Micrometer-sized NiOOH hierarchical spheres for enhanced degradation of sulfadiazine via synergistic adsorption and catalytic oxidation in peroxymonosulfate system. <b>2021</b> , 33, 930-930		2
1216	CuO/g-C <sub>3</sub> N <sub>4</sub> 2D/2D heterojunction photocatalysts as efficient peroxymonosulfate activators under visible light for oxytetracycline degradation: Characterization, efficiency and mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 128118	14.7	31
1215	Advanced activation of persulfate by polymeric g-CN based photocatalysts for environmental remediation: A review. <b>2021</b> , 413, 125324		81
1214	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
1213	Carbon aerogel from forestry biomass as a peroxymonosulfate activator for organic contaminants degradation. <b>2021</b> , 413, 125438		15
1212	Fenton-like chain reactions by coupling nanoscale tungsten powders and peroxydisulfate: Performance and mechanistic insights. <b>2021</b> , 413, 125304		3
1211	Integration of heterogeneous photocatalysis and persulfate based oxidation using TiO-reduced graphene oxide for water decontamination and disinfection. <b>2021</b> , 7, e07451		5
1210	Efficient removal of acetochlor pesticide from water using magnetic activated carbon: Adsorption performance, mechanism, and regeneration exploration. <b>2021</b> , 778, 146353		20
1209	Activation of peroxymonosulfate by biochar-based catalysts and applications in the degradation of organic contaminants: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 128829	14.7	59

1208	Critical review of perovskites-based advanced oxidation processes for wastewater treatment: Operational parameters, reaction mechanisms, and prospects. <b>2021</b> , 33, 643-643	11
1207	Insights into the fate and removal of antibiotics and antibiotic resistance genes using biological wastewater treatment technology. <b>2021</b> , 776, 145906	38
1206	A Review of Bacterial Antibiotic Resistance Genes and Their Removal Strategies from Wastewater. 1	2
1205	Yolk-shell Fe <sub>3</sub> O <sub>4</sub> @MOF-5 nanocomposites as a heterogeneous Fenton-like catalyst for organic dye removal. <b>2021</b> , 267, 118620	21
1204	Mobility of insecticide residues and main intermediates in a clay-loam soil, and impact of leachate components on their photocatalytic degradation. <b>2021</b> , 274, 129965	7
1203	Mitigation of emerging pollutants and pathogens in decentralized wastewater treatment processes: A review. <b>2021</b> , 779, 146545	12
1202	Degradation of tetrabromobisphenol A through peroxymonosulfate oxidation activated by LaSrCoMnO perovskite. <b>2021</b> , 28, 65814-65821	1
1201	Radiolysis of cardiovascular drug atenolol in aqueous solution by electron beam: Effect of water components and persulfate addition. <b>2021</b> , 184, 109458	2
1200	Photocatalytic degradation of four insecticides and their main generated transformation products in soil and pepper crop irrigated with reclaimed agro-wastewater under natural sunlight. <b>2021</b> , 414, 125603	7
1199	Dodecylpyridinium chloride removal by persulfate activation using UVA radiation or temperature: experimental design and kinetic modeling. <b>2021</b> , 1	1
1198	Simultaneous removal of typical flotation reagent 8-hydroxyquinoline and Cr(VI) through heterogeneous Fenton-like processes mediated by polydopamine functionalized ATP supported nZVI. <b>2021</b> , 126698	4
1197	Highly efficient degradation of emerging contaminants by magnetic CuO@FexOy derived from natural mackinawite (FeS) in the presence of peroxymonosulfate. <b>2021</b> ,	3
1196	Preparation of Mesoporous MnO <sub>2</sub> Catalysts with Different Morphologies for Catalytic Ozonation of Organic Compounds. 1	1
1195	A novel MnOOH coated nylon membrane for efficient removal of 2,4-dichlorophenol through peroxymonosulfate activation. <b>2021</b> , 414, 125526	9
1194	Enhanced degradation of contaminants of emerging concern by electrochemically activated peroxymonosulfate: Performance, mechanism, and influencing factors. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 128938	14.7 17
1193	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. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129162	14.7 15
1192	Catalytic membrane-based oxidation-filtration systems for organic wastewater purification: A review. <b>2021</b> , 414, 125478	39
1191	Effective removal of 2,4,6-trichlorophenol by FeSx/talc composite under microwave. <b>2021</b> , 9, 105287	1

1190	Efficient degradation of ciprofloxacin by magnetic FeO-MnO with oxygen vacancy in visible-light/peroxymonosulfate system. <b>2021</b> , 276, 130257	6
1189	Adsorption performance of modified agricultural waste materials for removal of emerging micro-contaminant bisphenol A: A comprehensive review. <b>2021</b> , 780, 146629	33
1188	A novel persulfate-photo-bioelectrochemical hybrid system promoting the degradation of refractory micropollutants at neutral pH. <b>2021</b> , 416, 125905	4
1187	Sequential coagulation and heat activated persulfate-peroxide binary oxidation process for landfill leachate treatment. <b>2021</b> , 42, 102202	5
1186	Facile synthesis of cobalt-iron layered double hydroxides nanosheets for direct activation of peroxymonosulfate (PMS) during degradation of fluoroquinolones antibiotics. <b>2021</b> , 310, 127584	20
1185	Visible-light induced activation of persulfate by self-assembled EHPDI/TiO photocatalyst toward efficient degradation of carbamazepine. <b>2021</b> , 783, 146996	8
1184	Insight into the difference in activation of peroxymonosulfate with nitrogen-doped and non-doped carbon catalysts to degrade bisphenol A. <b>2021</b> , 9, 105492	1
1183	Three-dimensional Co <sup>II</sup> /SBA-15/alginate hydrogels with excellent recovery and recyclability for activating peroxymonosulfate to degrade ciprofloxacin. <b>2021</b> , 323, 111259	1
1182	Catalytic advanced oxidation processes (AOPS) in water treatment by covalent organic frameworks-based materials: a review. <b>2021</b> , 47, 3109-3130	1
1181	Facile synthesis of graphitic carbon nitride from acetic acid pretreatment to activate persulfate in presence of blue light for photocatalytic removal of metronidazole. <b>2021</b> , 276, 130171	2
1180	Simultaneous mitigation of disinfection by-product formation and odor compounds by peroxide/Fe(II)-based process: Combination of oxidation and coagulation. <b>2021</b> , 201, 117327	4
1179	Chlorpyrifos removal from aqueous solution through sequential use of coagulation and advanced oxidation processes: By-products, degradation pathways, and toxicity assessment. <b>2021</b> , 23, 101564	3
1178	Activation of Peroxymonosulfate by Co-Metal-Organic Frameworks as Catalysts for Degradation of Organic Pollutants. <b>2021</b> , 60, 13223-13232	1
1177	Insight into the degradation of methomyl in water by peroxymonosulfate. <b>2021</b> , 9, 105358	8
1176	Covalent organic polymer derived carbon nanocapsule-supported cobalt as a catalyst for activating monopersulfate to degrade salicylic acid. <b>2021</b> , 9, 105377	4
1175	A Comprehensive Assessment of Catalytic Performances of Mn <sub>2</sub> O <sub>3</sub> Nanoparticles for Peroxymonosulfate Activation during Bisphenol A Degradation. <b>2021</b> , 11, 993	2
1174	Ag-single atoms modified S1.66-N1.91/TiO <sub>2</sub> -x for photocatalytic activation of peroxymonosulfate for bisphenol A degradation. <b>2021</b> ,	1
1173	The pH-dependent degradation of sulfadiazine using natural siderite activating PDS: The role of singlet oxygen. <b>2021</b> , 784, 147117	10

1172	Electro-Persulfate Processes for the Treatment of Complex Wastewater Matrices: Present and Future. <b>2021</b> , 26,		10
1171	Enhancement of ball-milling on pyrite/zero-valent iron for persulfate activation on imidacloprid removal in aqueous solution: A mechanistic study. <b>2021</b> , 9, 105647		4
1170	Research progress on nano-Fe0/PS system for degradation of refractory organics in aqueous solution. <b>2021</b> , 9, 105345		4
1169	Critical review of natural iron-based minerals used as heterogeneous catalysts in peroxide activation processes: Characteristics, applications and mechanisms. <b>2021</b> , 416, 125809		12
1168	Treatment of pharmaceutical wastewater by ionizing radiation: Removal of antibiotics, antimicrobial resistance genes and antimicrobial activity. <b>2021</b> , 415, 125724		15
1167	Novel FeII/EDDS/UV/PAA advanced oxidation process: Mechanisms and applications for naproxen degradation at neutral pH and low FeII dosage. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127896	14.7	12
1166	Activation of persulfates by carbonaceous materials: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129297	14.7	54
1165	Facile synthesis of Fe(III)-doped g-C3N4 and its application in peroxymonosulfate activation for degrading refractory contaminants via nonradical oxidation. <b>2021</b> , 56, 17556-17567		0
1164	Hydrogen peroxide suppresses the formation of brominated oxidation by-products in heat-activated peroxydisulfate oxidation process. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129138	14.7	5
1163	Review on application of perylene diimide (PDI)-based materials in environment: Pollutant detection and degradation. <b>2021</b> , 780, 146483		11
1162	Effect of the presence of inorganic ions and operational parameters on free cyanide degradation by ultraviolet C activation of persulfate in synthetic mining wastewater. <b>2021</b> , 170, 107031		4
1161	pH influence on 2,4,6-trichlorophenol degradation by ferrate(VI). <b>2021</b> , 23, 101683		2
1160	Rationally designed Co3O4-SnO2 activated peroxymonosulfate for the elimination of chloramphenicol. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129401	14.7	18
1159	Pyrrolic N-rich biochar without exogenous nitrogen doping as a functional material for bisphenol A removal: Performance and mechanism. <b>2021</b> , 291, 120093		40
1158	The cooperation of photothermal conversion, photocatalysis and sulfate radical-based advanced oxidation process on few-layered graphite modified graphitic carbon nitride. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127993	14.7	4
1157	Practical use of response surface methodology for optimization of veterinary antibiotic removal using UV/H2O2 process. <b>2021</b> , 94, 102174		1
1156	Degradation of sulfamethoxazole by UV/sulfite in presence of oxygen: Efficiency, influence factors and mechanism. <b>2021</b> , 268, 118709		7
1155	Degradation of HCHs by thermally activated persulfate in soil system: Effect of temperature and oxidant concentration. <b>2021</b> , 9, 105668		10

1154	Ultrafiltration ceramic membrane as oxidant-catalyst/water contactor to promote sulfate radical AOPs: a case study on 17 $\beta$ -estradiol and 17 $\beta$ -ethinylestradiol removal. <b>2021</b> , 1	0
1153	Degradation Efficiency and Kinetics Analysis of an Advanced Oxidation Process Utilizing Ozone, Hydrogen Peroxide and Persulfate to Degrade the Dye Rhodamine B. <b>2021</b> , 11, 974	0
1152	ATIK AKTİF AMURUN HİDROKSİL VE SÜLFAT RADİKALLERİNE DEZENTEGRASYONU. <b>2021</b> , 26, 389-400	
1151	Enhanced degradation of ofloxacin by persulfate activation with Mn doped CuO: Synergetic effect between adsorption and non-radical activation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127972	14.7 7
1150	Fe-based Fenton-like catalysts for water treatment: Preparation, characterization and modification. <b>2021</b> , 276, 130177	63
1149	Nanosized mesoporous iron manganese bimetal oxides anchored on natural kaolinite as highly efficient hydrogen peroxide catalyst for polyvinyl alcohol degradation. <b>2021</b> , 337, 116611	1
1148	UV-C Activation of Peroxides for Bisphenol A Removal from a Real Water Sample. 2100050	0
1147	Efficient light-free activation of peroxymonosulfate by carbon ring conjugated carbon nitride for elimination of organic pollutants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129671	14.7 8
1146	The promotions on radical formation and micropollutant degradation by the synergies between ozone and chemical reagents (synergistic ozonation): A review. <b>2021</b> , 418, 126327	8
1145	Amlodipine removal via peroxymonosulfate activated by carbon nanotubes/cobalt oxide (CNTs/CoO) in water. <b>2021</b> , 1	0
1144	Mutual-activation between Zero-Valent iron and graphitic carbon for Cr(VI) Removal: Mechanism and inhibition of inherent Side-reaction. <b>2022</b> , 608, 588-598	1
1143	Toxicity changes of wastewater during various advanced oxidation processes treatment: An overview. <b>2021</b> , 315, 128202	37
1142	Degradation of oxytetracycline in aqueous solution by heat-activated peroxydisulfate and peroxymonosulfate oxidation. <b>2021</b> , 1	0
1141	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. <b>2021</b> , 514, 111835	8
1140	pH-dependent oxidation mechanisms over FeCu doped g-C <sub>3</sub> N <sub>4</sub> for ofloxacin degradation via the efficient peroxymonosulfate activation. <b>2021</b> , 315, 128207	8
1139	Eco-approach for pharmaceutical removal: Thermochemical waste valorisation, biochar adsorption and electro-assisted regeneration. <b>2021</b> , 389, 138694	5
1138	Effective activation of peroxymonosulfate with natural manganese-containing minerals through a nonradical pathway and the application for the removal of bisphenols. <b>2021</b> , 417, 126152	5
1137	Dual roles of biochar redox property in mediating 2,4-dichlorophenol degradation in the presence of Fe and persulfate. <b>2021</b> , 279, 130456	1



1136	Activation of peroxymonosulfate by bicarbonate and acceleration of the reaction by freezing. <b>2021</b> , 785, 147369		2
1135	Systematic Performance Comparison of Fe/Fe/Peroxymonosulfate and Fe/Fe/Peroxydisulfate Systems for Organics Removal. <b>2021</b> , 14,		0
1134	Use of an ultraviolet light-activated persulfate process to degrade humic substances: effects of wavelength and persulfate dose. <b>2021</b> , 1		1
1133	Recent advances in simultaneous removal of SO <sub>2</sub> and NO <sub>x</sub> from exhaust gases: Removal process, mechanism and kinetics. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127588	14.7	21
1132	Nitrogen doping sludge-derived biochar to activate peroxymonosulfate for degradation of sulfamethoxazole: Modulation of degradation mechanism by calcination temperature. <b>2021</b> , 418, 126309		16
1131	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
1130	Activation of peroxymonosulfate by cobalt doped graphitic carbon nitride for ammonia removal in chloride-containing wastewater. <b>2021</b> , 271, 118858		7
1129	Direct oxidation of peroxymonosulfate under natural solar radiation: Accelerating the simultaneous removal of organic contaminants and pathogens from water. <b>2021</b> , 279, 130555		6
1128	Facile synthesis of iron oxide supported on porous nitrogen doped carbon for catalytic oxidation. <b>2021</b> , 785, 147296		1
1127	Hydroxyapatite Coated with Co-Based Metal Organic Framework Nanoparticles as Heterojunctions for Catalytic Degradation of Organics. <b>2021</b> , 4, 9370-9381		3
1126	Fe-N/C single-atom catalysts with high density of Fe-N <sub>x</sub> sites toward peroxymonosulfate activation for high-efficient oxidation of bisphenol A: Electron-transfer mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129590	14.7	25
1125	A Review of Manganese(III) (Oxyhydr)Oxides Use in Advanced Oxidation Processes. <b>2021</b> , 26,		0
1124	MgO-supported CuO with encapsulated structure for enhanced peroxymonosulfate activation to remove thiamphenicol. <b>2021</b> , 280, 119782		3
1123	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
1122	High-efficiency degradation of bisphenol A by heterogeneous MnFe layered double oxides through peroxymonosulfate activation: Performance and synergetic mechanism. <b>2021</b> , 270, 118770		19
1121	The graceful art, significant function and wide application behavior of ultrasound research and understanding in carbamazepine (CBZ) enhanced removal and degradation by Fe/PDS/US. <b>2021</b> , 278, 130368		9
1120	Compound specific isotope analysis to characterize degradation mechanisms of p-chloroaniline by persulfate at ambient temperature. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129526	14.7	1
1119	Fe(III) greatly promotes peroxymonosulfate activation by WS <sub>2</sub> for efficient carbamazepine degradation and Escherichia coli disinfection. <b>2021</b> , 787, 147724		8

1118	Multipath elimination of bisphenol A over bifunctional polymeric carbon nitride/biochar hybrids in the presence of persulfate and visible light. <b>2021</b> , 417, 126008		12
1117	Cobalt mediated electro-scrubbers for the degradation of gaseous perchloroethylene. <b>2021</b> , 279, 130525		2
1116	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
1115	Degradation of hexacyanoferrate (III) ion by the coupling of the ultraviolet light and the activation of persulfate at basic pH. <b>2021</b> , 9, 106233		2
1114	Cobalt sulfide-reduced graphene oxide: An efficient catalyst for the degradation of rhodamine B and pentachlorophenol using peroxymonosulfate. <b>2021</b> , 9, 106018		3
1113	Efficiently activate peroxymonosulfate by Fe <sub>3</sub> O <sub>4</sub> @MoS <sub>2</sub> for rapid degradation of sulfonamides. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130126	14.7	36
1112	Stable and recyclable FeC@CN catalyst supported on carbon felt for efficient activation of peroxymonosulfate. <b>2021</b> , 599, 219-226		8
1111	Micropollutant abatement and byproduct formation during the co-exposure of chlorine dioxide (ClO) and UVC radiation. <b>2021</b> , 419, 126424		6
1110	Singlet oxygen-dominated activation of peroxymonosulfate by passion fruit shell derived biochar for catalytic degradation of tetracycline through a non-radical oxidation pathway. <b>2021</b> , 419, 126495		37
1109	Energy-efficient removal of acid red 14 by UV-LED/persulfate advanced oxidation process: Pulsed irradiation, duty cycle, reaction kinetics, and energy consumption. <b>2021</b> , 127, 129-139		1
1108	Peracids - New oxidants in advanced oxidation processes: The use of peracetic acid, peroxymonosulfate, and persulfate salts in the removal of organic micropollutants of emerging concern - A review. <b>2021</b> , 790, 148195		23
1107	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
1106	Degradation of antibiotic Cephalosporin C in different water matrices by ionizing radiation: Degradation kinetics, pathways, and toxicity. <b>2021</b> , 791, 148253		3
1105	Catalytic activation of PS/PMS over Fe-Co bimetallic oxides for phenol oxidation under alkaline conditions. <b>2021</b> , 562, 150134		13
1104	Role of process parameters in the degradation of sulfamethoxazole by heat-activated peroxymonosulfate oxidation: Radical identification and elucidation of the degradation mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130457	14.7	25
1103	Ce-based heterogeneous catalysts by partial thermal decomposition of Ce-MOFs in activation of peroxymonosulfate for the removal of organic pollutants under visible light. <b>2021</b> , 280, 130637		12
1102	A multi-structural carbon nitride co-modified by Co, S to dramatically enhance mineralization of Bisphenol f in the photocatalysis-PMS oxidation coupling system. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130035	14.7	7
1101	A review on persulfates activation by functional biochar for organic contaminants removal: Synthesis, characterizations, radical determination, and mechanism. <b>2021</b> , 9, 106267		16

1100	Activation of peroxymonosulfate by sewage sludge biochar-based catalyst for efficient removal of bisphenol A: Performance and mechanism. <b>2021</b> , 272, 118909	18
1099	Recent advances in nanoscale zero-valent iron/oxidant system as a treatment for contaminated water and soil. <b>2021</b> , 9, 106276	2
1098	Degradation of ciprofloxacin by persulfate activation with CuO supported on Mg Al layered double hydroxide. <b>2021</b> , 9, 106178	2
1097	Degradation of ciprofloxacin using hematite/MOF nanocomposite as a heterogeneous Fenton-like catalyst: A comparison of composite and core-shell structures. <b>2021</b> , 281, 130970	18
1096	Facile synthesis of oxygen vacancies enriched $\gamma$ -FeO for peroxymonosulfate activation: A non-radical process for sulfamethoxazole degradation. <b>2021</b> , 419, 126447	15
1095	Highly-efficient and stable MgCo <sub>2</sub> O <sub>4</sub> spinel for bisphenol a removal by activating peroxymonosulfate via radical and non-radical pathways. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 129498	14.7 8
1094	Catalytic degradation of acetaminophen by Fe and N Co-doped multi-walled carbon nanotubes. <b>2021</b> , 201, 111535	4
1093	Advanced treatment of antibiotic wastewater by ionizing radiation combined with peroxymonosulfate/H <sub>2</sub> O <sub>2</sub> oxidation. <b>2021</b> , 321, 128921	1
1092	Biomass-based porous materials encapsulating Iron phosphide nanoparticles for enhanced contaminant removal via peroxymonosulfate activation. <b>2021</b> , 43, 102242	0
1091	Enhanced-oxidation of sulfanilamide in groundwater using combination of calcium peroxide and pyrite. <b>2021</b> , 419, 126514	10
1090	Crednerite CuMnO <sub>2</sub> as highly efficient Fenton-like catalysts for p-nitrophenol removal: Synergism between Cu(I) and Mn (III). <b>2021</b> , 319, 128640	5
1089	Enhanced trichloroethylene degradation in the presence of surfactant: Pivotal role of Fe(II)/nZVI catalytic synergy in persulfate system. <b>2021</b> , 272, 118885	6
1088	Peroxymonosulfate activation through 2D/2D Z-scheme CoAl-LDH/BiOBr photocatalyst under visible light for ciprofloxacin degradation. <b>2021</b> , 420, 126613	24
1087	Porous carbon nanofibers loaded with copper-cobalt bimetallic particles for heterogeneously catalyzing peroxymonosulfate to degrade organic dyes. <b>2021</b> , 9, 106003	2
1086	Heterogeneous activation of peroxymonosulfate by Co <sub>3</sub> O <sub>4</sub> loaded biochar for efficient degradation of 2,4-dichlorophenoxyacetic acid. <b>2021</b> , 627, 127152	4
1085	Carbothermal reduction synthesis of zero-valent iron and its application as a persulfate activator for ciprofloxacin degradation. <b>2021</b> , 275, 119201	4
1084	Activation of peroxymonosulfate by CuFe <sub>2</sub> O <sub>4</sub> -CoFe <sub>2</sub> O <sub>4</sub> composite catalyst for efficient bisphenol a degradation: Synthesis, catalytic mechanism and products toxicity assessment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130093	14.7 22
1083	Titanium-based hollow silica nanocarrier doped hydrogel for ultraviolet assisted removal of diclofenac sodium. <b>2021</b> , 274, 118694	2

1082	Degrading arsanilic acid and adsorbing the released inorganic arsenic simultaneously in aqueous media with CuFe <sub>2</sub> O <sub>4</sub> activating peroxymonosulfate system: Factors, performance, and mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 128537	14.7	7
1081	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
1080	Intensified ozonation in packed bubble columns for water treatment: Focus on mass transfer and humic acids removal. <b>2021</b> , 283, 131217		5
1079	Degradation of ofloxacin by peroxymonosulfate activated with cobalt-doped graphitic carbon nitride: Mechanism and performance. <b>2021</b> , 133, 108863		0
1078	Hybrid metal and non-metal activation of Oxone by magnetite nanostructures co-immobilized with nano-carbon black to degrade tetracycline: Fenton and electrochemical enhancement with bio-assay. <b>2021</b> , 274, 119055		3
1077	Polyoxometalate intercalated La-doped NiFe-LDH for efficient removal of tetracycline via peroxymonosulfate activation. <b>2021</b> , 274, 119113		3
1076	Efficient removal of estrogenic compounds in water by Mn-activated peroxymonosulfate: Mechanisms and application in sewage treatment plant water. <b>2021</b> , 288, 117728		4
1075	Heterogeneous Fe(III)/Fe(II) circulation in FeVO <sub>4</sub> by coupling with dithionite towards long-lasting peroxymonosulfate activation: Pivotal role of vanadium as electron shuttles. <b>2021</b> , 297, 120470		14
1074	Degradation of norfloxacin by calcite activating peroxymonosulfate: Performance and mechanism. <b>2021</b> , 282, 131091		7
1073	Efficient decomposition of lignocellulose and improved composting performances driven by thermally activated persulfate based on metagenomics analysis. <b>2021</b> , 794, 148530		12
1072	Allogenic organic matter fouling alleviation in membrane distillation by peroxymonosulfate (PMS): Role of PMS concentration and activation temperature. <b>2021</b> , 516, 115225		6
1071	Mechanistic insight into the reaction pathway of peroxomonosulfate-initiated decomplexation of EDTA-Ni(II) under alkaline conditions: Formation of high-valent Ni intermediate. <b>2021</b> , 296, 120375		5
1070	Iron molybdate catalyzed activation of peroxymonosulfate for bisphenol AF degradation via synergetic non-radical and radical pathways. <b>2021</b> , 797, 149151		8
1069	Evaluation on thermal treatment for sludge from the liquid digestion of restaurant food waste. <b>2021</b> , 179, 179-188		2
1068	N, P co-doped core/shell porous carbon as a highly efficient peroxymonosulfate activator for phenol degradation. <b>2021</b> , 276, 119286		4
1067	Co-activation of persulfate by cation and anion from FeP for advanced oxidation processes. <b>2021</b> , 298, 120505		7
1066	Defect-engineered Co <sub>3</sub> O <sub>4</sub> with porous multishelled hollow architecture enables boosted advanced oxidation processes. <b>2021</b> , 298, 120596		15
1065	Cu(II) assisted peroxymonosulfate oxidation of sulfonamide antibiotics: The involvement of Cu(III). <b>2021</b> , 284, 131329		4

1064	Catalyst bridging-mediated electron transfer for nonradical degradation of bisphenol A via natural manganese ore-cornstalk biochar composite activated peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131777	14.7	13
1063	Postsynthetic incorporation of catalytically inert Al into Co <sub>3</sub> O <sub>4</sub> for peroxymonosulfate activation and insight into the boosted catalytic performance. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131292	14.7	1
1062	Phenolic compounds degradation: Insight into the role and evidence of oxygen vacancy defects engineering on nanomaterials. <b>2021</b> , 800, 149410		5
1061	Peroxydisulfate activation by digestate-derived biochar for azo dye degradation: Mechanism and performance. <b>2021</b> , 279, 119687		7
1060	Advances in design of metal-organic frameworks activating persulfate for water decontamination. <b>2021</b> , 954-955, 122070		0
1059	Simultaneously rapid degradation of phenylphosphonic acid and efficient adsorption of released phosphate in the system of peroxymonosulfate (PMS) and Co <sub>3</sub> O <sub>4</sub> -La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /C derived from MOFs. <b>2021</b> , 9, 106332		0
1058	Efficient activation of peroxymonosulfate on CuS@MIL-101(Fe) spheres featured with abundant sulfur vacancies for coumarin degradation: Performance and mechanisms. <b>2021</b> , 276, 119404		10
1057	Mechanistic approach of SO <sub>4</sub> <sup>2-</sup> /OH radical toward target pollutants degradation simultaneously enhanced activity and stability of perovskite-like catalyst SrCuxNi <sub>1-x</sub> O <sub>3</sub> . <b>2021</b> , 279, 119677		2
1056	Alkylpolyglycoside modified MnFeO with abundant oxygen vacancies boosting singlet oxygen dominated peroxymonosulfate activation for organic pollutants degradation. <b>2021</b> , 285, 131433		8
1055	Heterogeneous activation of peroxymonosulfate using superparamagnetic ECD-CoFe <sub>2</sub> O <sub>4</sub> catalyst for the removal of endocrine-disrupting bisphenol A: Performance and degradation mechanism. <b>2021</b> , 279, 119752		3
1054	Peroxymonosulfate enhanced photocatalytic degradation of Reactive Black 5 by ZnO-GAC: Key influencing factors, stability and response surface approach. <b>2021</b> , 279, 119754		2
1053	Regulation of electronic structures of MOF-derived carbon via ligand adjustment for enhanced Fenton-like reactions. <b>2021</b> , 799, 149497		7
1052	Heterogeneous activation of peroxymonosulfate by Co-doped FeO nanospheres for degradation of p-hydroxybenzoic acid. <b>2021</b> , 604, 390-401		10
1051	Degradation of sulfamethoxazole using peroxymonosulfate activated by cobalt embedded into N, O co-doped carbon nanotubes. <b>2021</b> , 277, 119457		5
1050	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. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130662	14.7	5
1049	Enhanced degradation of tetrabromobisphenol A by Fe/sulfite process under simulated sunlight irradiation. <b>2021</b> , 285, 131442		3
1048	Role of nitrite ligands in enhancing sulfate radical production via catalytic peroxymonosulfate activation by cobalt complexes. <b>2021</b> , 279, 119698		4
1047	Nonradical activation of peroxymonosulfate by hematite for oxidation of organic compounds: A novel mechanism involving high-valent iron species. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130743	14.7	3

1046	Removal of organic pollutants from wastewater by advanced oxidation processes and its combination with membrane processes. <b>2021</b> , 169, 108631		21
1045	Highly efficient degradation of sulfamethoxazole (SMX) by activating peroxymonosulfate (PMS) with CoFe <sub>2</sub> O <sub>4</sub> in a wide pH range. <b>2021</b> , 276, 119403		13
1044	Activation of peroxymonosulfate by iron oxychloride with hydroxylamine for ciprofloxacin degradation and bacterial disinfection. <b>2021</b> , 799, 149506		5
1043	Selective production of singlet oxygen from zinc-etching hierarchically porous biochar for sulfamethoxazole degradation. <b>2021</b> , 290, 117991		2
1042	Fabrication of NiO/MgAl layered double hydroxide with superior performance for peroxydisulfate activation. <b>2021</b> , 304, 122565		3
1041	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
1040	Synergistic effect of PMS activation by Fe <sub>0</sub> @Fe <sub>3</sub> O <sub>4</sub> anchored on N, S, O co-doped carbon composite for degradation of sulfamethoxazole. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131960	14.7	10
1039	Ultrafine cobalt nanoparticle-embedded leaf-like hollow N-doped carbon as an enhanced catalyst for activating monopersulfate to degrade phenol. <b>2022</b> , 606, 929-940		4
1038	The effect of complexation with metal ions on tetracycline degradation by Fe <sup>2+/3+</sup> and Ru <sup>3+</sup> activated peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132178	14.7	7
1037	Surface imprinted polymer on a metal-organic framework for rapid and highly selective adsorption of sulfamethoxazole in environmental samples. <b>2022</b> , 423, 127087		4
1036	Synthesis of nitrogen and sulfur Co-doped carbon with special hollow sphere structure for enhanced catalytic oxidation. <b>2022</b> , 278, 119522		1
1035	Biochar as environmental armour and its diverse role towards protecting soil, water and air. <b>2022</b> , 806, 150444		12
1034	Co/PMS based sulfate-radical treatment for effective mineralization of spent ion exchange resin. <b>2022</b> , 287, 132351		1
1033	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. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132613	14.7	7
1032	Activation of peroxymonosulfate by single-atom Fe-g-C <sub>3</sub> N <sub>4</sub> catalysts for high efficiency degradation of tetracycline via nonradical pathways: Role of high-valent iron-oxo species and Fe <sup>n+</sup> sites. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130803	14.7	41
1031	A confinement approach to fabricate hybrid PBAs-derived FeCo@NC yolk-shell nanoreactors for bisphenol A degradation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131080	14.7	3
1030	Enhanced activation of peroxymonosulfate through exfoliated oxygen-doping graphitic carbon nitride for degradation of organic pollutants. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131066	14.7	6
1029	Heterogeneous photocatalyst-driven persulfate activation process under visible light irradiation: From basic catalyst design principles to novel enhancement strategies. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131166	14.7	26

1028	Mechanistic investigation of photocatalytic degradation of Bisphenol-A using MIL-88A(Fe)/MoS <sub>2</sub> Z-scheme heterojunction composite assisted peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131028	14.7	20
1027	Shell-core MnO <sub>2</sub> /Carbon@Carbon nanotubes synthesized by a facile one-pot method for peroxymonosulfate oxidation of tetracycline. <b>2022</b> , 278, 119558		4
1026	Activation of peroxymonosulfate by MgCoAl layered double hydroxide: Potential enhancement effects of catalyst morphology and coexisting anions. <b>2022</b> , 286, 131640		2
1025	Mechanistic insights into rapid sulfite activation with cobalt sulfide towards iohexol abatement: Contribution of sulfur conversion. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132404	14.7	7
1024	Removal of chloramphenicol by sulfide-modified nanoscale zero-valent iron activated persulfate: Performance, salt resistance, and reaction mechanisms. <b>2022</b> , 286, 131876		4
1023	Enhanced heterogeneous activation of peroxymonosulfate by Ruddlesden-Popper-type La <sub>2</sub> CoO <sub>4</sub> +nanoparticles for bisphenol A degradation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 131447	14.7	4
1022	Highly efficient degradation of bisphenol A with persulfate activated by vacuum-ultraviolet/ultraviolet light (VUV/UV): Experiments and theoretical calculations. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132485	14.7	4
1021	Revealing the heterogeneous activation mechanism of peroxydisulfate by CuO: the critical role of surface-binding organic substrates. <b>2022</b> , 802, 149833		1
1020	Heterogeneous activation of persulfate by Mg doped Ni(OH) for efficient degradation of phenol. <b>2022</b> , 286, 131647		6
1019	Stacked step-scheme PDI/g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> photocatalyst with enhanced visible photocatalytic degradation towards atrazine via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131809	14.7	16
1018	Efficient degradation of tetracycline by singlet oxygen-dominated peroxymonosulfate activation with magnetic nitrogen-doped porous carbon.. <b>2022</b> , 115, 330-340		16
1017	Advances in application of g-CN-based materials for treatment of polluted water and wastewater via activation of oxidants and photoelectrocatalysis: A comprehensive review. <b>2022</b> , 286, 131737		7
1016	Inhibition of bromate formation in the ozone/peroxymonosulfate process by ammonia, ammonia-chlorine and chlorine-ammonia pretreatment: Comparisons with ozone alone. <b>2022</b> , 278, 119600		1
1015	Visible light-driven g-CN peroxymonosulfate activation process for carbamazepine degradation: Activation mechanism and matrix effects. <b>2022</b> , 286, 131906		2
1014	Enhanced activation of persulfate by CuCoFe <sub>2</sub> O <sub>4</sub> @MC/AC as a novel nanomagnetic heterogeneous catalyst with ultrasonic for metronidazole degradation. <b>2022</b> , 286, 131872		7
1013	Polyoxometalates for bifunctional applications: Catalytic dye degradation and anticancer activity. <b>2022</b> , 286, 131869		5
1012	Metal-based catalysts for persulfate and peroxymonosulfate activation in heterogeneous ways: A review. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132323	14.7	23
1011	Coagulation combined with ultraviolet irradiation activated sodium percarbonate as pretreatment prior to ultrafiltration: Analysis of free radical oxidation mechanism and membrane fouling control. <b>2022</b> , 287, 132049		2

1010	Peroxymonosulfate activation by graphitic carbon nitride co-doped with manganese, cobalt, and oxygen for degradation of trichloroethylene: Effect of oxygen precursors, kinetics, and mechanism. <b>2022</b> , 278, 119580		1
1009	Efficient activation of peroxymonosulfate by copper supported on polyurethane foam for contaminant degradation: Synergistic effect and mechanism. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131741	14.7	8
1008	Efficacy of UV-LED based advanced disinfection processes in the inactivation of waterborne fungal spores: Kinetics, photoreactivation, mechanism and energy requirements. <b>2022</b> , 803, 150107		4
1007	Advanced oxidation processes for the degradation of dissolved organics in produced water: A review of process performance, degradation kinetics and pathway. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132492	14.7	11
1006	Synthesis of single atom cobalt dispersed on 2D carbon nanoplate and degradation of acetaminophen by peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 132027	14.7	4
1005	Magnetic 2D/2D oxygen doped g-CN/biochar composite to activate peroxymonosulfate for degradation of emerging organic pollutants. <b>2022</b> , 423, 127207		13
1004	Pyrene contaminated soil remediation using microwave/magnetite activated persulfate oxidation. <b>2022</b> , 286, 131787		16
1003	Fe@Fe <sub>2</sub> O <sub>3</sub> core-shell nanowires compounding humic acid enhanced catalysis removal 2,4,6-trichlorophenol: Performance and mechanism. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131779	14.7	0
1002	Nitrogen- and sulfur-doped zinc ferrite nanoparticles as efficient heterogeneous catalysts in advanced oxidation processes. <b>2022</b> , 161, 110398		1
1001	Iron(V)/Iron(IV) species in graphitic carbon nitride-ferrate(VI)-visible light system: Enhanced oxidation of micropollutants. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132610	14.7	3
1000	Electrokinetic combined peroxymonosulfate (PMS) remediation of PAH contaminated soil under different enhance methods. <b>2022</b> , 286, 131595		3
999	Biochar/iron oxide composite as an efficient peroxymonosulfate catalyst for the degradation of model naphthenic acids compounds. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132220	14.7	3
998	Trace catechin enhanced degradation of organic pollutants with activated peroxymonosulfate: Comprehensive identification of working oxidizing species. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132408	14.7	1
997	Sodium hydroxide-enhanced acetaminophen elimination in heat/peroxymonosulfate system: Production of singlet oxygen and hydroxyl radical. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132438	14.7	13
996	Heteroatom doping in metal-free carbonaceous materials for the enhancement of persulfate activation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131655	14.7	19
995	Enhanced electrokinetically-delivered persulfate and alternating electric field induced thermal effect activated persulfate in situ for remediation of phenanthrene contaminated clay. <b>2022</b> , 423, 127199		4
994	Effective degradation of norfloxacin on Ag <sub>3</sub> PO <sub>4</sub> /CNTs photoanode: Z-scheme mechanism, reaction pathway, and toxicity assessment. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132092	14.7	5
993	Insight into the evolution of antibiotic resistance genes and microbial community during spiramycin fermentation residue composting process after thermally activated peroxydisulfate pretreatment. <b>2022</b> , 424, 127287		1



992	Tunable active sites on biogas digestate derived biochar for sulfanilamide degradation by peroxymonosulfate activation. <b>2022</b> , 421, 126794	19
991	Adding CuCoO-GO to inhibit bromate formation and enhance sulfamethoxazole degradation during the ozone/p peroxymonosulfate process: Efficiency and mechanism. <b>2022</b> , 286, 131829	2
990	Enhanced sludge dewaterability by a novel MnFe <sub>2</sub> O <sub>4</sub> -Biochar activated peroxymonosulfate process combined with Tannic acid. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132280	14.7 6
989	Degradation of anticorrosive agent benzotriazole by electron beam irradiation: Mechanisms, degradation pathway and toxicological analysis. <b>2022</b> , 287, 132133	2
988	Multifunctional capacity of CoMnFe-LDH/LDO activated peroxymonosulfate for p-arsanilic acid removal and inorganic arsenic immobilization: Performance and surface-bound radical mechanism. <b>2022</b> , 806, 150379	5
987	Removal of drug losartan in environmental aquatic matrices by heat-activated persulfate: Kinetics, transformation products and synergistic effects. <b>2022</b> , 287, 131952	9
986	A review of microwave-assisted advanced oxidation processes for wastewater treatment. <b>2022</b> , 287, 131981	7
985	Recirculation of reject water in deep-dewatering process to influent of wastewater treatment plant and dewaterability of sludge conditioned with Fe/HO, Fe/Ca(CLO), and Fe/NaSO: From bench to pilot-scale study. <b>2022</b> , 203, 111825	1
984	Degradation of chloroaniline in chemical wastewater by ionizing radiation technology: Degradation mechanism and toxicity evaluation. <b>2022</b> , 287, 132365	0
983	Enhanced PMS activation property of Cu decorated MnO catalyst for antibiotic degradation. <b>2021</b> , 14, 2150003	0
982	Review on carbonaceous materials as persulfate activators: structure-performance relationship, mechanism and future perspectives on water treatment. <b>2021</b> , 9, 8012-8050	27
981	Synthesis of flower-like CoOOH with hierarchical micro/nano-structure as a catalyst for peroxymonosulfate activation. <b>2021</b> , 267, 02001	0
980	KSO activation by glucose at room temperature for the synthesis and functionalization of heterocycles in water. <b>2021</b> , 57, 8437-8440	7
979	A microwave radiation-enhanced Fe-C/persulfate system for the treatment of refractory organic matter from biologically treated landfill leachate.. <b>2021</b> , 11, 29620-29631	1
978	Enhanced nonradical catalytic oxidation by encapsulating cobalt into nitrogen doped graphene: highlight on interfacial interactions. <b>2021</b> , 9, 7198-7207	9
977	Sulfate Radicals-Based Technology as a Promising Strategy for Wastewater Management. <b>2020</b> , 113-115	1
976	A novel H <sub>2</sub> O <sub>2</sub> -persulfate hybrid system supported by electrochemically induced acidic and alkaline conditions for organic pollutant removal. <b>2020</b> , 50, 791-797	1
975	Core-shell magnetic Fe <sub>3</sub> O <sub>4</sub> @Zn/Co-ZIFs to activate peroxymonosulfate for highly efficient degradation of carbamazepine. <b>2020</b> , 277, 119136	183

974	Visible light-assisted peroxydisulfate activation via hollow copper tungstate spheres for removal of antibiotic sulfamethoxazole. <b>2020</b> , 31, 2721-2724		68
973	Enhanced degradation of polycyclic aromatic hydrocarbons in aged subsurface soil using integrated persulfate oxidation and anoxic biodegradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 125040	14.7	19
972	Fenton-like degradation of sulfamerazine at nearly neutral pH using Fe-Cu-CNTs and AlO-CNTs for in-situ generation of H <sub>2</sub> O <sub>2</sub> /OH/O <sub>2</sub> <sup>-</sup> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125329	14.7	25
971	Degradation of ibuprofen by UVA-LED/TiO <sub>2</sub> /persulfate process: Kinetics, mechanism, water matrix effects, intermediates and energy consumption. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125462	14.7	33
970	Hollow Cu-Co/N-doped carbon spheres derived from ZIFs as an efficient catalyst for peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125533	14.7	40
969	Surfactant degradation using hydrodynamic cavitation based hybrid advanced oxidation technology: A techno economic feasibility study. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125599	14.7	15
968	Enhancement of ionizing radiation-induced catalytic degradation of antibiotics using Fe/C nanomaterials derived from Fe-based MOFs. <b>2020</b> , 389, 122148		18
967	Catalytic activation of peroxymonosulfate with manganese cobaltite nanoparticles for the degradation of organic dyes.. <b>2020</b> , 10, 3775-3788		16
966	Design and engineering of layered double hydroxide based catalysts for water depollution by advanced oxidation processes: a review. <b>2020</b> , 8, 4141-4173		72
965	In situ growth of benzothiadiazole functionalized UiO-66-NH <sub>2</sub> on carboxyl modified g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic degradation of sulfamethoxazole under visible light. <b>2020</b> , 10, 4703-4711		15
964	Efficient Removal of Levofloxacin by Activated Persulfate with Magnetic CuFe <sub>2</sub> O <sub>4</sub> /MMT-k10 Nanocomposite: Characterization, Response Surface Methodology, and Degradation Mechanism. <b>2020</b> , 12, 3583		3
963	Review of plasma-based water treatment technologies for the decomposition of persistent organic compounds. <b>2021</b> , 60, SA0801		13
962	MoS <sub>2</sub> -assisted Fe/peroxymonosulfate oxidation for the abatement of phenacetin: efficiency, mechanisms and toxicity evaluation.. <b>2021</b> , 11, 33149-33159		1
961	Recent advances in graphitic carbon nitride as a catalyst for heterogeneous Fenton-like reactions. <b>2021</b> , 50, 16887-16908		1
960	Diclofenac degradation based on shape-controlled cuprous oxide nanoparticles prepared by using ionic liquid. <b>2021</b> , 84, 1930-1942		1
959	Role of Borate Buffer in Organic Degradation by Peroxymonosulfate in the Presence of Metal Oxides. <b>2021</b> , 13, 2698		
958	Kinetics and mechanisms of diniconazole degradation by $\text{MnO}_2$ activated peroxymonosulfate. <b>2021</b> , 119850		2
957	A review on sustainable reuse applications of Fenton sludge during wastewater treatment. <b>2022</b> , 16, 1		6

956	Study of the Photocatalytic Activity of TiO <sub>2</sub> and Fe <sup>2+</sup> in the Activation of Peroxymonosulfate. <b>2021</b> , 13, 2860		0
955	Effective degradation of aqueous bisphenol-A using novel Ag <sub>2</sub> C <sub>2</sub> O <sub>4</sub> /Ag@GNS photocatalyst under visible light. <b>2021</b> ,		0
954	Targeted degradation of TBBPA using novel molecularly imprinted polymer encapsulated C-Fe-Nx nanocomposite driven from MOFs. <b>2021</b> , 424, 127499		3
953	Advanced oxidation processes (AOPs) based wastewater treatment - unexpected nitration side reactions - a serious environmental issue: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 133002	14.7	30
952	Visible light assisted activation of peroxymonosulfate by bimetallic MOF based heterojunction MIL-53(Fe/Co)/CeO <sub>2</sub> for atrazine degradation: Pivotal roles of dual redox cycle for reactive species generation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133069	14.7	10
951	Perspective for removing volatile organic compounds during solar-driven water evaporation toward water production. e12147		7
950	Hierarchical microsphere encapsulated in graphene oxide composite for durable synergetic membrane separation and Fenton-like degradation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133124	14.7	1
949	Pharmaceutical Compounds in Aquatic Environments-Occurrence, Fate and Bioremediation Prospective. <b>2021</b> , 9,		9
948	In Situ-Formed Phenoxy Radical on the CuO Surface Triggers Efficient Persulfate Activation for Phenol Degradation. <b>2021</b> , 55, 15361-15370		9
947	Enhanced bezafibrate degradation and power generation via the simultaneous PMS activation in visible light photocatalytic fuel cell. <b>2021</b> , 207, 117800		5
946	Doping phosphorus into Co <sub>3</sub> O <sub>4</sub> : A new promising pathway to boost the catalytic activity for peroxymonosulfate activation. <b>2022</b> , 574, 151632		1
945	Iron-Based Dual Active Site-Mediated Peroxymonosulfate Activation for the Degradation of Emerging Organic Pollutants. <b>2021</b> , 55, 15412-15422		9
944	Amino-modified metal-organic frameworks as peroxymonosulfate catalyst for Bisphenol AF decontamination: ROS generation, degradation pathways, and toxicity evaluation. <b>2021</b> , 119967		2
943	Novel LaCr substituted Mhexaferrite photocatalyst for decontamination of organic pollutants by peroxymonosulfate activation. <b>2022</b> , 345, 117840		
942	Abatement of NO/SO <sub>2</sub> /Hg from flue gas by advanced oxidation processes (AOPs): Tech-category, status quo and prospects. <b>2022</b> , 806, 150958		3
941	Efficient removal of antibiotic-resistant bacteria and intracellular antibiotic resistance genes by heterogeneous activation of peroxymonosulfate on hierarchical macro-mesoporous CoO-SiO <sub>2</sub> with enhanced photogenerated charges.. <b>2021</b> , 430, 127414		3
940	Rapid degradation of p-arsanilic acid and simultaneous removal of the released arsenic species by Co-Fe@C activated peroxydisulfate process. <b>2021</b> , 112184		1
939	Metal-organic frameworks for the generation of reactive oxygen species. <b>2021</b> , 2, 041301		0

938	Peroxymonosulfate activation on carbon nano-onions modified graphitic carbon nitride via light-tuning radical and nonradical pathways. <b>2021</b> , 9, 106592		0
937	Thirty contaminants of emerging concern identified in secondary treated hospital wastewater and their removal by solar Fenton (like) and sulphate radicals-based advanced oxidation processes. <b>2021</b> , 9, 106614		0
936	Novel ZnO/CuBiS <sub>2</sub> nanocomposites with p-n heterojunctions for persulfate-promoted photocatalytic mitigation of pollutants under visible light. <b>2021</b> , 27, 101518		1
935	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. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 133177	14.7	3
934	Tailoring biochar for persulfate-based environmental catalysis: Impact of biomass feedstocks. <b>2021</b> , 424, 127663		6
933	Coordination environment and architecture engineering over Co <sub>4</sub> N-based nanocomposite for accelerating advanced oxidation processes. <b>2021</b> , 302, 120850		3
932	A novel magnetic CuFeAl-LDO catalyst for efficient degradation of tetrabromobisphenol a in water. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133107	14.7	1
931	Incineration of the antibiotic chloramphenicol by electro-peroxone using a smart electrolyzer that produces H <sub>2</sub> O <sub>2</sub> through electrolytic O <sub>2</sub> . <b>2021</b> , 120021		2
930	Preparation of CuFe <sub>2</sub> O <sub>4</sub> /montmorillonite nanocomposite and explaining its performance in the sonophotocatalytic degradation process for ciprofloxacin. <b>2021</b> , 45, 100532		5
929	A novel electrochemically enhanced homogeneous PMS-heterogeneous CoFeO synergistic catalysis for the efficient removal of levofloxacin. <b>2021</b> , 127651		2
928	Tailored oxygen defect coupling composition engineering Co Mn <sub>2</sub> O <sub>4</sub> spinel hollow nanofiber enables improved Bisphenol A catalytic degradation. <b>2021</b> , 282, 120051		4
927	Spinel Nanoferrites: A Versatile Platform for Environmental Remediation. <b>2021</b> , 315-347		
926	Ferric nitrate/dopamine/melamine-derived nitrogen doped carbon material as the activator of peroxymonosulfate to degrade sulfamethoxazole. <b>2022</b> , 281, 119844		4
925	Can biochar and hydrochar be used as sustainable catalyst for persulfate activation?. <b>2022</b> , 287, 132458		11
924	Synthetic Fe-rich nontronite as a novel activator of bisulfite for the efficient removal of tetracycline. <b>2022</b> , 302, 114002		2
923	PBA composites and their derivatives in energy and environmental applications. <b>2022</b> , 451, 214260		12
922	Biochar co-doped with nitrogen and boron switching the free radical based peroxydisulfate activation into the electron-transfer dominated nonradical process. <b>2022</b> , 301, 120832		14
921	Efficient photocatalytic degradation of ciprofloxacin using novel dual Z-scheme gCN/CuFe <sub>2</sub> O <sub>4</sub> /MoS <sub>2</sub> mediated peroxymonosulphate activation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132834	14.7	11

920	Lignin-derived biochar to support CoFe <sub>2</sub> O <sub>4</sub> : Effective activation of peracetic acid for sulfamethoxazole degradation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132868	14.7	1
919	Improvement of Fe <sup>2+</sup> /peroxymonosulfate oxidation of organic pollutants by promoting Fe <sup>2+</sup> regeneration with visible light driven g-C <sub>3</sub> N <sub>4</sub> photocatalysis. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132828	14.7	6
918	Effect and mechanism of oxidant on alkaline chemical mechanical polishing of gallium nitride thin films. <b>2022</b> , 138, 106272		1
917	Degradation of sulfamethoxazole by ferrous iron activated peroxymonosulfate: Elucidation of the degradation mechanism and influence of process parameters. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132875	14.7	3
916	Activation of O by zero-valent zinc assisted with Cu(II) for organics removal: Performance and mechanism. <b>2022</b> , 424, 127506		1
915	Radical Reactions and Their Application for Water Treatment. <b>2020</b> , 203-219		
914	Activated Persulfate and Hydrogen Peroxide Treatment of Highly Contaminated Water Matrices: A Comparative Study. <b>2020</b> , 11, 549-554		1
913	Degradation of Micropollutants and Formation of Oxidation By-Products during the Ozone/Peroxymonosulfate System: A Critical Review. <b>2021</b> , 13, 3126		0
912	Application of CoMn/CoFe layered double hydroxide based on metal-organic frameworks template to activate peroxymonosulfate for 2,4-dichlorophenol degradation.. <b>2021</b> , 84, 3871-3890		
911	Efficient degradation of orange II by core shell CoFeO-CeO nanocomposite with the synergistic effect from sodium persulfate. <b>2021</b> , 132765		3
910	Degradation of Organic Contaminants in the Fe(II)/Peroxymonosulfate Process under Acidic Conditions: The Overlooked Rapid Oxidation Stage. <b>2021</b> , 55, 15390-15399		12
909	Layered double hydroxide based materials applied in persulfate based advanced oxidation processes: Property, mechanism, application and perspectives. <b>2021</b> , 424, 127612		6
908	Catalytic performance and periodate activation mechanism of anaerobic sewage sludge-derived biochar. <b>2021</b> , 424, 127692		4
907	Engineering the low-coordinated single cobalt atom to boost persulfate activation for enhanced organic pollutant oxidation. <b>2021</b> , 120877		3
906	Efficient removal of extractives from wood using an ultrasound-activated persulfate treatment strategy. 1		0
905	Heterogeneous degradation of organic contaminants by peracetic acid activated with FeCo <sub>2</sub> S <sub>4</sub> modified g-C <sub>3</sub> N <sub>4</sub> : Identification of reactive species and catalytic mechanism. <b>2021</b> , 120082		2
904	Degradation of sulfamethoxazole by MnO <sub>2</sub> /heat-activated persulfate: Kinetics, synergistic effect and reaction mechanism. <b>2021</b> , 100200		6
903	Removal of Typical Volatile Organic Compounds in Condensed Freshwater by Activated Persulfate during Interfacial Solar Distillation.		2

902	One-step synthesis of natural montmorillonite/hematite composites with enhanced persulfate catalytic activity for sulfamethoxazole degradation: Efficiency, kinetics, and mechanism. <b>2022</b> , 204, 112326	1
901	Peroxymonosulfate (PMS) activation by mackinawite for the degradation of organic pollutants: Underappreciated role of dissolved sulfur derivatives. <b>2021</b> , 811, 151421	4
900	Persulfate-mediated Photocatalytic Degradation of Ciprofloxacin in Water Using Ultraviolet Light and Zero-valent Aluminum. <b>2020</b> , 1, 67-76	0
899	A Study on Oxidation of Tetramethylammonium Hydroxide (TMAH) using UV/Persulfate. <b>2020</b> , 42, 443-451	
898	Activation of persulfate by biochar for the degradation of phenolic compounds in aqueous systems. <b>2022</b> , 9, 100201	2
897	Fabrication of Epigallocatechin-3-gallate (EGCG) functionalized Mn <sub>3</sub> O <sub>4</sub> for enhanced degradation of carbamazepine with peroxymonosulfate activation. <b>2022</b> , 158, 42-54	1
896	Enhancement of persulfate activation by Fe-biochar composites: Synergism of Fe and N-doped biochar. <b>2022</b> , 303, 120926	13
895	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. <b>2021</b> , 55, 16163-16174	17
894	Review on the contamination and remediation of polycyclic aromatic hydrocarbons (PAHs) in coastal soil and sediments. <b>2021</b> , 112423	6
893	Titania-activated persulfate for environmental remediation: the-state-of-the-art. 1-56	4
892	Degradation of Aqueous Quinoline Using Persulfate Activated by Fe <sub>2</sub> O <sub>3</sub> @Carbon Composites and Enhanced by UV Irradiation. <b>2021</b> , 6, 11638-11647	
891	Strong Pyro-Electro-Chemical Coupling of Elbaite/H <sub>2</sub> O <sub>2</sub> System for Pyrocatalysis Dye Wastewater. <b>2021</b> , 11, 1370	0
890	Tetracycline degradation by peroxymonosulfate activated with Co <sub>Nx</sub> active sites: Performance and activation mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133477	14.7 1
889	Role of oxygen vacancies and Sr sites in SrCo <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> perovskite on efficient activation of peroxymonosulfate towards the degradation of aqueous organic pollutants. <b>2021</b> ,	1
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887	A Review of Activation Persulfate by Iron-Based Catalysts for Degrading Wastewater. <b>2021</b> , 11, 11314	0
886	Disinfection and mechanism of super-resistant <i>Acinetobacter</i> sp. and the plasmid-encoded antibiotic resistance gene bla <sub>NDM-1</sub> by UV/persulfate. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133565	14.7 2
885	Enhanced photocatalytic degradation of bisphenol A over N,S-doped carbon quantum dot-modified MIL-101(Fe) heterostructure composites under visible light irradiation by persulfate. <b>2021</b> , 577, 151902	4

884	Biochar in the 21st century: A data-driven visualization of collaboration, frontier identification, and future trend. <b>2021</b> , 151774		4
883	MOFs-derived MnOx@C nanosheets for peroxymonosulfate activation: Synergistic effect and mechanism. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133806	14.7	0
882	Peroxymonosulfate activation by algal carbocatalyst for organic dye oxidation: Insights into experimental and theoretical. <b>2021</b> , 816, 151611		3
881	Unveiling the role of cobalt species in the Co/N-C catalysts-induced peroxymonosulfate activation process. <b>2021</b> , 426, 127784		2
880	CrPO4 as a recycled material supported Co3O4 as an efficient peroxymonosulfate catalyst for phenacetin elimination from aqueous solution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133558	14.7	0
879	B,N-decorated carbocatalyst based on Fe-MOF/BN as an efficient peroxymonosulfate activator for bisphenol A degradation.. <b>2021</b> , 430, 127832		3
878	Enhanced peroxymonosulfate activation by hierarchical porous FeO/CoS nanosheets for efficient elimination of rhodamine B: Mechanisms, degradation pathways and toxicological analysis. <b>2021</b> , 610, 751-751		2
877	Degradation of a non-oxidizing biocide in circulating cooling water using UV/persulfate: Kinetics, pathways, and cytotoxicity. <b>2021</b> , 289, 133064		3
876	Cobalt-ferrite/Ag-fMWCNT hybrid nanocomposite catalyst for efficient degradation of synthetic organic dyes via peroxymonosulfate activation. <b>2021</b> , 112424		1
875	Nitrogen-doped biochar encapsulated Fe/Mn nanoparticles as cost-effective catalysts for heterogeneous activation of peroxymonosulfate towards the degradation of bisphenol-A: Mechanism insight and performance assessment. <b>2021</b> , 283, 120136		5
874	Peroxydisulfate activation by LaNiO nanoparticles with different morphologies for the degradation of organic pollutants.. <b>2022</b> , 85, 39-51		0
873	Pollutant decontamination by polyethyleneimine-engineered agricultural waste materials: a review. 1		2
872	Au@CoS-BiVO4 {010} Constructed for Visible-Light-Assisted Peroxymonosulfate Activation. <b>2021</b> , 11, 1414		0
871	Use of an automated respirometer for in situ chemical oxidation (ISCO) activator type and concentration selection. <b>2021</b> , 29, 3141		
870	Decomplexation of Ni(II)-citrate and recovery of nickel from chelated nickel containing electroplating wastewater by peroxymonosulfate with nickel. <b>2021</b> , 120142		0
869	Degradation of sulfamethoxazole (SMX) by water falling film DBD Plasma/Persulfate: Reactive species identification and their role in SMX degradation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133916	14.7	13
868	Paracetamol degradation by photo-assisted activation of peroxymonosulfate over Zn <sub>x</sub> Ni <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> @BiOBr heterojunctions. <b>2021</b> , 9, 106797		1
867	Degradation performance and mechanism of penicillin G in aqueous solution by ionizing radiation. <b>2021</b> , 328, 129625		1

866	A stable biochar supported S-nZVI to activate persulfate for effective dichlorination of atrazine. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133937	14.7	0
865	New insights into the integrated application of Fenton-based oxidation processes for the treatment of pharmaceutical wastewater. <b>2021</b> , 44, 102440		10
864	Removal of PFAS in Water and Water/Soil Slurry Using Fe -Modified Reactive Activated Carbon Conjugated with Persulfate. <b>2021</b> , e1671		0
863	Dealloyed nanoporous copper as a highly active catalyst in Fenton-like reaction for degradation of organic pollutants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133834	14.7	0
862	Degradation of tetracycline over carbon nanosheet: high efficiency, mechanism and biotoxicity assessment. <b>2021</b> , 8, 3762-3773		2
861	0D-1D hybrid nanoarchitectonics: tailored design of FeCo@N-C yolk-shell nanoreactors with dual sites for excellent Fenton-like catalysis.. <b>2021</b> , 12, 15418-15422		4
860	Nitrogen-Doped Carbon Nanosheets with Fe-Based Nanoparticles for Highly Efficient Degradation of Antibiotics and Sulfate Ion Enhancement Effect.		
859	Degradation of Sulfamethoxazole Using Pms Activated by Cobalt Sulfides Encapsulated in Nitrogen and Sulfur Co-Doped Graphene.		
858	Enhanced Treatment of Oily Ink Wastewater Using a Modified Degreaser by Nano-Fe <sub>3</sub> O <sub>4</sub> /Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> : Efficient Coagulation and Sedimentation.		
857	Nano Fe <sub>3</sub> O <sub>4</sub> as the Heterogeneous Catalyst in an Advanced Oxidation Process for Excellent Peroxymonosulfate Activation Toward Climbazole Degradation.		
856	High Efficient Activation of Peroxymonosulfate by Co <sub>9</sub> S <sub>8</sub> Anchored in N, S, O Co-Doped Carbon Composite for Degradation of Sulfamethoxazole: Role of Sulfur Precursor and Sulfur Doping Content.		
855	Key Role of Biochar Substrate in Efficient Degradation of Norfloxacin by Bimetallic Oxide CuO/Fe <sub>3</sub> O <sub>4</sub> : Reducing Leaching and Maintaining Catalytic Activity.		
854	pH Dependent Degradation of Trichloroethylene by Persulfate Activated with Chelated-Fe(II) in the Presence of Sodium Dodecyl Sulfate.		
853	Catalytic degradation of sulfamethoxazole by peroxyoxymonosulfate activation system composed of nitrogen-doped biochar from pomelo peel: Important roles of defects and nitrogen, and detoxification of intermediates.. <b>2022</b> , 613, 57-70		2
852	A comprehensive kinetic model for phenol oxidation in seven advanced oxidation processes and considering the effects of halides and carbonate.. <b>2022</b> , 14, 100129		1
851	Formation of Nitrophenolic Byproducts during UV-Activated Peroxydisulfate Oxidation in the Presence of Nitrate.		0
850	Boosting the efficiency of Fe-MoS <sub>2</sub> /peroxyoxymonosulfate catalytic systems for organic pollutants remediation: Insights into edge-site atomic coordination. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134511	14.7	2
849	Mineralization of sulfamethoxazole by ozone-based and Fenton/Fenton-like-based processes. <b>2022</b> , 135, 441		0



848	A critical review on graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-based materials: Preparation, modification and environmental application. <b>2022</b> , 453, 214338		35
847	Redox-active metal-organic frameworks for the removal of contaminants of emerging concern. <b>2022</b> , 284, 120246		1
846	Degradation of 1,4-dioxane by biochar activating peroxymonosulfate under continuous flow conditions. <b>2021</b> , 809, 151929		0
845	Synergistic oxidation-filtration process of electroactive peroxydisulfate with a cathodic composite CNT-PPy/PVDF ultrafiltration membrane.. <b>2021</b> , 210, 117971		3
844	Comparison of Cr/Ni removal by electrokinetic (EK) and electrochemical geooxidation (ECGO) processes: Remediation performance and economic analysis in an in-situ system. <b>2022</b> , 10, 107018		0
843	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
842	Magnetic MgFeO/biochar derived from pomelo peel as a persulfate activator for levofloxacin degradation: Effects and mechanistic consideration.. <b>2021</b> , 346, 126547		4
841	Deprivation of unpaired electrons on graphitic carbon nitride-based carbocatalysts by peroxydisulfate driving a nonradical oxidation process. <b>2022</b> , 334, 130220		0
840	Efficient degradation of bisphenol a with MoS/BiVO hetero-nanoflower as a heterogenous peroxymonosulfate activator under visible-light irradiation. <b>2021</b> , 289, 133158		1
839	Transformation of gemfibrozil by the interaction of chloride with sulfate radicals: Radical chemistry, transient intermediates and pathways.. <b>2021</b> , 209, 117944		0
838	Removal of antibiotics pollutants in wastewater by UV-based advanced oxidation processes: Influence of water matrix components, processes optimization and application: A review. <b>2022</b> , 45, 102496		8
837	Aeromonas hydrophila-derived BioMnOx activates peroxymonosulfate for 2,4-dimethylaniline degradation in water: mechanisms and catalyst reusability. <b>2022</b> , 158, 308-319		0
836	Understanding the selectivity trend of water and sulfate (SO <sub>4</sub> <sup>2-</sup> ) oxidation on metal oxides: On-site synthesis of persulfate, H <sub>2</sub> O <sub>2</sub> for wastewater treatment. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134332	14.7	0
835	Magnetic Co/Fe nanocomposites derived from ferric sludge as an efficient peroxymonosulfate catalyst for ciprofloxacin degradation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134180	14.7	4
834	Enhanced performance of Fe(III)/persulfate for the degradation of DEET: Working mechanism of ascorbic acid. <b>2022</b> , 285, 120239		
833	Covalent organic frameworks-derived hierarchically porous N-doped carbon for 2,4-dichlorophenol degradation by activated persulfate: The dual role of graphitic N.. <b>2021</b> , 426, 128065		2
832	Application of sludge biochar combined with peroxydisulfate to degrade fluoroquinolones: Efficiency, mechanisms and implication for ISCO.. <b>2021</b> , 426, 128081		4
831	Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review.. <b>2021</b> , 426, 128077		1

830	Hydrodynamic cavitation-enhanced heterogeneous activation of persulfate for tetracycline degradation: Synergistic effects, degradation mechanism and pathways. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134238	14.7	4
829	Singlet oxygen-dominated activation of peroxymonosulfate by CuO/MXene nanocomposites for efficient decontamination of carbamazepine under high salinity conditions: Performance and singlet oxygen evolution mechanism. <b>2022</b> , 285, 120288		1
828	Synergistic degradation of organic pollutants on CoFe <sub>2</sub> O <sub>4</sub> /rGO nanocomposites by peroxymonosulfate activation under LED irradiation. <b>2022</b> , 579, 152151		1
827	Catalytic non-thermal plasma treatment of endocrine disrupting compounds, pharmaceuticals, and personal care products in aqueous solution: A review.. <b>2021</b> , 133395		2
826	Enhanced activation of sulfite by a mixture of zero-valent Fe-Mn bimetallic nanoparticles and biochar for degradation of sulfamethazine in water. <b>2022</b> , 285, 120315		6
825	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
824	Ultrafast photodegradation of nitrophenol by Ag/AgPO <sub>4</sub> /Zn-Al LDH composites activated by persulfate system: Removal efficiency, degradation pathway and reaction mechanism.. <b>2021</b> , 292, 133431		1
823	Simultaneous oxidation and analysis of TOC-TN-TP in one pot reactor.. <b>2021</b> , 292, 133336		0
822	High efficiency degradation of tetracycline by peroxymonosulfate activated with Fe/NC catalysts: Performance, intermediates, stability and mechanism.. <b>2021</b> , 205, 112538		2
821	Nitrogen-containing carbon hollow nanocube-confined cobalt nanoparticle as a magnetic and efficient catalyst for activating monopersulfate to degrade a UV filter in water. <b>2022</b> , 10, 106989		1
820	Oxidative degradation of nitroguanidine (NQ) by UV-C and oxidants: Hydrogen peroxide, persulfate and peroxymonosulfate.. <b>2021</b> , 292, 133357		0
819	Combined solar activated sulfate radical-based advanced oxidation processes (SR-AOPs) and biofiltration for the remediation of dissolved organics in oil sands produced water. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134579	14.7	2
818	A facial strategy to efficiently improve catalytic performance of CoFeO to peroxymonosulfate.. <b>2022</b> , 116, 1-13		1
817	Role of halide ions on organic pollutants degradation by peroxygens-based advanced oxidation processes: A critical review. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134546	14.7	1
816	Thermal Assisted Heterogeneous Activation of Peroxymonosulfate by Activated Carbon to Degrade Perfluorooctanoic Acid in Soil.		
815	Efficient Degradation of Atrazine Residues in Wastewater by Persulfate Assisted Ag <sub>3</sub> VO <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> /Diatomite Under Visible Light.		
814	Heteroatoms-Doped Biochar Derived from Deciduous Resource as Persulfate Catalysts for Efficient Degradation of Organic Pollutants.		
813	Industrial Syrup-Derived N-Doped Porous Biochar for Efficient Peroxydisulfate Activation: Insights into the Nonradical Oxidation Mechanisms.		

812	Persulfate coupled with Cu <sup>2+</sup> /LDH-MoS <sub>4</sub> : A novel process for the efficient atrazine abatement, mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , <b>2022</b> , 134933	14.7	0
811	Selective Removal of Phenolic Compounds by Peroxydisulfate Activation: Inherent Role of Hydrophobicity and Interface ROS.. <b>2022</b> ,		2
810	Decomplexation Performance of CuEDTA and Parameter Optimization by Three-Dimensional Electro-Fenton. <b>2022</b> , 10,		1
809	A novel preparation process of straw-based iron material for enhanced persulfate activation of reactive black 5 degradation.. <b>2022</b> , 1		1
808	Effective degradation of amoxicillin using peroxymonosulfate activated with MWCNTs-CuNiFe <sub>2</sub> O <sub>4</sub> as a new catalyst: optimization, degradation pathway, and toxicity assessment. 1		0
807	Kinetic modeling of UV/H <sub>2</sub> O <sub>2</sub> , UV/sodium percarbonate, and UV/potassium peroxymonosulfate processes for albendazole degradation. <b>2022</b> , 135, 639		1
806	Efficient degradation of phenol with high salinity wastewater by catalytic persulfate activation using chitosan biochar. <b>2022</b> , 135, 425		1
805	Sodium Alginate/Sulfide Coated Iron Nanoparticles for the Persulfate Activated Degradation of Tetrabromobisphenol a in Soil: Performance, Mechanism and Impacts on the Soil System.		
804	Mechanistic insights of removing pollutant in adsorption and advanced oxidation processes by sludge biochar.. <b>2022</b> , 430, 128375		3
803	Sulfite activation by oxidized pyrite for dye degradation assisted by oxygen. <b>2022</b> , 46, 2618-2626		0
802	Monopersulfate in water treatment: Kinetics.. <b>2022</b> , 430, 128383		0
801	Photo-persulfate oxidation and mineralization of benzoic acid: Kinetics and optimization under UVC irradiation.. <b>2022</b> , 133663		1
800	The analysis of efficiency of activated peroxymonosulfate for fenuron degradation in water. <b>2022</b> , 26, 102352		1
799	Recent Advances on the Aqueous Phase Adsorption of Carbamazepine.		3
798	Activation of sulfite by ferric ion for the degradation of 2,4,6-tribromophenol with the addition of sulfite in batches. <b>2022</b> ,		0
797	Synergistic oxygen vacancy-rich CuO/visible light activation of peroxymonosulfate for degradation of rhodamine B: fast catalyst synthesis and degradation mechanism.. <b>2022</b> , 12, 2928-2937		0
796	Oxygen vacancy enhances the catalytic activity of trimetallic oxide catalysts for efficient peroxymonosulfate activation.		
795	Comparative Study of Data Analysis Techniques for Photo-Fenton Degradation of Landfill Leachate. <b>2022</b> , 61, 1985-1993		

794	Roles of Sulfites in Reverse Osmosis (RO) Plants and Adverse Effects in RO Operation.. <b>2022</b> , 12,	0
793	Synthesis of superparamagnetic MnFeO/mSiO nanomaterial for degradation of perfluorooctanoic acid by activated persulfate.. <b>2022</b> , 1	1
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791	Strategies for the detection, removal and elimination of antidepressants. 1-32	1
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789	A natural manganese ore as a heterogeneous catalyst to effectively activate peroxymonosulfate to oxidize organic pollutants. <b>2022</b> ,	1
788	Mechanochemically tailoring oxygen vacancies of MnO <sub>2</sub> for efficient degradation of tetrabromobisphenol A with peroxymonosulfate. <b>2022</b> , 307, 121168	1
787	Degradation of Dimethyl phthalate through Fe(II)/ Peroxymonosulfate heightened by fulvic acid: efficiency and possible mechanism. <b>2021</b> , 1-36	
786	Heterogeneous Activation of Persulfate by LaMO <sub>3</sub> (M=Co, Fe, Cu, Mn, Ni) Perovskite Catalysts for the Degradation of Organic Compounds. <b>2022</b> , 12, 187	1
785	Polydopamine-Chitosan modified TiO <sub>2</sub> nanoparticles for temperature-response removal of diclofenac sodium under visible light irradiation. <b>2022</b> , 131, 104151	0
784	Recent advances in biochar technology for textile dyes wastewater remediation: A review.. <b>2022</b> , 209, 112841	8
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778	COD and ammonia removal from landfill leachate by UV/PMS/Fe <sup>2+</sup> process: ANN/RSM modeling and optimization. <b>2022</b> , 159, 716-726	1
777	Degradation of iopamidol by silicate-based microfiltration membrane activated peroxymonosulfate in aqueous solution: Efficiency, mechanism and degradation pathway. <b>2022</b> , 338, 130562	0

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709	Photothermal Nanoconfinement Reactor: Boosting Chemical Reactivity with Locally High Temperature in a Confined Space.	
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642	A comprehensive review on persulfate activation treatment of wastewater.. <b>2022</b> , 154906		3
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- 186 Efficient activation of peroxymonosulfate via Cu<sup>2+</sup>/Cu<sup>+</sup> cycle enhanced by hydroxylamine for the degradation of Rhodamine B. 0
- 185 Enhanced persulfate activation by nitrogen-doped mesoporous carbon for efficiently degrading organic matters. 0
- 184 Mechanism of nitrogen-doped biochar-activated peroxymonosulfate for degradation of 2,4-dichlorophenol. 0
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- 142 Activation of peroxymonosulfate by Co-Mg-Fe layered doubled hydroxide for efficient degradation of Rhodamine B. ○
- 141 Removal mechanism of *Microcystis aeruginosa* in Fe<sup>2+</sup>/sodium percarbonate and Fe<sup>2+</sup>/sodium persulfate advanced oxidation-flocculation system. ○
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