

Chemistry of persulfates in water and wastewater treat

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Citation Report

#	ARTICLE	IF	CITATIONS
1	TiO ₂ immobilised on biopolymer nanofibers for the removal of bisphenol A and diclofenac from water. <i>Ecological Chemistry and Engineering S</i> , 2017, 24, 417-429.	0.3	10
2	Carbonate and carbonate anion radicals in aqueous solutions exist as CO ₃ ^{•-} (H ₂ O) ₆ ²⁺ and CO ₃ ^{•-} (H ₂ O) ₆ ^{•+} respectively: the crucial role of the inner hydration sphere of anions in explaining their properties. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9429-9435.	1.3	26
3	Efficient microwave degradation of humic acids in water using persulfate and activated carbon. <i>Environmental Chemistry Letters</i> , 2018, 16, 1069-1075.	8.3	38
4	Enhanced activation process of persulfate by mesoporous carbon for degradation of aqueous organic pollutants: Electron transfer mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 1-10.	10.8	614
5	Oxidation Processes in Water Treatment: Are We on Track?. <i>Environmental Science & Technology</i> , 2018, 52, 5062-5075.	4.6	452
6	Major Advances and Challenges in Heterogeneous Catalysis for Environmental Applications: A Review. <i>Ecological Chemistry and Engineering S</i> , 2018, 25, 9-34.	0.3	58
7	Treatment of military primary explosives wastewater containing lead styphnate (LS) and lead azide (LA) by mFe ₀ -PS-O ₃ process. <i>Journal of Cleaner Production</i> , 2018, 188, 860-870.	4.6	20
8	Activation of peroxymonosulfate on visible light irradiated TiO ₂ via a charge transfer complex path. <i>Chemical Engineering Journal</i> , 2018, 346, 249-257.	6.6	85
9	Carbon and hydrogen isotope fractionation of phthalate esters during degradation by sulfate and hydroxyl radicals. <i>Chemical Engineering Journal</i> , 2018, 347, 111-118.	6.6	38
10	Selection criteria for oxidation method in total organic carbon measurement. <i>Chemosphere</i> , 2018, 199, 453-458.	4.2	36
11	Competitive reactions of hydroxyl and sulfate radicals with sulfonamides in Fe ²⁺ /S ₂ O ₈ ²⁻ system: Reaction kinetics, degradation mechanism and acute toxicity. <i>Chemical Engineering Journal</i> , 2018, 339, 32-41.	6.6	66
12	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018, 28, 1705295.	7.8	370
13	Critical review of the science and sustainability of persulphate advanced oxidation processes. <i>Chemical Engineering Journal</i> , 2018, 338, 651-669.	6.6	461
14	Degradation of antibiotic sulfamethoxazole by biochar-activated persulfate: Factors affecting the activation and degradation processes. <i>Catalysis Today</i> , 2018, 313, 128-133.	2.2	148
15	Degradation of ibuprofen in water by Fe ^{II} -NTA complex-activated persulfate with hydroxylamine at neutral pH. <i>Chemical Engineering Journal</i> , 2018, 337, 152-160.	6.6	68
16	Enhancing surface corrosion of zero-valent aluminum (ZVAL) and electron transfer process for the degradation of trichloroethylene with the presence of persulfate. <i>Chemical Engineering Journal</i> , 2018, 348, 350-360.	6.6	50
17	Oxidation of organic pollutants by peroxymonosulfate activated with low-temperature-modified nanodiamonds: Understanding the reaction kinetics and mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 432-441.	10.8	161
18	The performance of a sulfate-radical mediated advanced oxidation process in the degradation of organic matter from secondary effluents. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 773-782.	1.2	7

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19	Oxidation of steroid estrogens by peroxymonosulfate (PMS) and effect of bromide and chloride ions: Kinetics, products, and modeling. <i>Water Research</i> , 2018, 138, 56-66.	5.3	156
20	Evaluation of advanced oxidation processes for water and wastewater treatment – A critical review. <i>Water Research</i> , 2018, 139, 118-131.	5.3	1,891
21	Micropollutants removal by full-scale UV-C/sulfate radical based Advanced Oxidation Processes. <i>Science of the Total Environment</i> , 2018, 630, 1216-1225.	3.9	72
22	Enhanced peroxymonosulfate activation for sulfamethazine degradation by ultrasound irradiation: Performances and mechanisms. <i>Chemical Engineering Journal</i> , 2018, 335, 145-153.	6.6	269
23	Sulfate radical-based oxidation for sludge treatment: A review. <i>Chemical Engineering Journal</i> , 2018, 335, 865-875.	6.6	161
24	Abatement of chlorinated compounds in groundwater contaminated by HCH wastes using ISCO with alkali activated persulfate. <i>Science of the Total Environment</i> , 2018, 615, 1070-1077.	3.9	89
25	Degradation of organic pollutants by Co ₃ O ₄ -mediated peroxymonosulfate oxidation: Roles of high-energy {O [•] -} ₁ -exposed TiO ₂ support. <i>Chemical Engineering Journal</i> , 2018, 334, 1430-1439.	6.6	75
26	Treatment of wastewater containing nickel by complexation- ultrafiltration using sodium polyacrylate and the stability of PAA-Ni complex in the shear field. <i>Chemical Engineering Journal</i> , 2018, 334, 1878-1885.	6.6	54
27	Degradation of 1H-benzotriazole using ultraviolet activating persulfate: Mechanisms, products and toxicological analysis. <i>Chemical Engineering Journal</i> , 2018, 334, 1493-1501.	6.6	73
28	Remediation of soil contaminated by PAHs and TPH using alkaline activated persulfate enhanced by surfactant addition at flow conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1270-1278.	1.6	42
29	A g-C ₃ N ₄ /MIL-101(Fe) heterostructure composite for highly efficient BPA degradation with persulfate under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23703-23711.	5.2	153
30	Activation of persulfates by ferrocene@MIL-101(Fe) heterogeneous catalyst for degradation of bisphenol A. <i>RSC Advances</i> , 2018, 8, 36477-36483.	1.7	33
31	Sulfate radical oxidation combined with iron flocculation for upgrading biological effluent of coking wastewater. <i>RSC Advances</i> , 2018, 8, 38765-38772.	1.7	5
32	Assessment of Sulfate Radical-Based Advanced Oxidation Processes for Water and Wastewater Treatment: A Review. <i>Water (Switzerland)</i> , 2018, 10, 1828.	1.2	194
33	Degradation of the Nonsteroidal Anti-Inflammatory Drug Piroxicam by Iron Activated Persulfate: The Role of Water Matrix and Ultrasound Synergy. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2600.	1.2	22
34	Review – Electroreduction of Peroxodisulfate: A Review of a Complicated Reaction. <i>Journal of the Electrochemical Society</i> , 2018, 165, H785-H798.	1.3	23
35	Electrooxidation of sulfate paired to electroreduction of copper for regeneration of persulfate/sulfuric acid etching solution. <i>Green Chemistry</i> , 2018, 20, 4710-4718.	4.6	8
36	Sono-Photocatalytic Degradation of 4-Chlorophenol in Aqueous Solutions. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 1813-1819.	0.1	8

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37	Is Sulfate Radical Really Generated from Peroxydisulfate Activated by Iron(II) for Environmental Decontamination?. <i>Environmental Science & Technology</i> , 2018, 52, 11276-11284.	4.6	517
38	Treatment of bitumen post oxidative effluents by sulfate radicals based advanced oxidation processes (S-AOPs) under alkaline pH conditions. <i>Journal of Cleaner Production</i> , 2018, 195, 374-384.	4.6	157
39	Identifying the Nonradical Mechanism in the Peroxymonosulfate Activation Process: Singlet Oxygenation Versus Mediated Electron Transfer. <i>Environmental Science & Technology</i> , 2018, 52, 7032-7042.	4.6	777
40	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> , 2018, 350, 673-680.	6.6	52
41	Mitigation of algal organic matter released from <i>Chaetoceros affinis</i> and <i>Hymenomonas</i> by in situ generated ferrate. <i>Chemosphere</i> , 2018, 206, 718-726.	4.2	16
42	Halogenation Chemistry of Hydraulic Fracturing Additives under Highly Saline Simulated Subsurface Conditions. <i>Environmental Science & Technology</i> , 2018, 52, 9097-9107.	4.6	22
43	Enhanced catalytic ozonation treatment of dibutyl phthalate enabled by porous magnetic Ag-doped ferrosin MnFe ₂ O ₄ materials: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2018, 354, 42-52.	6.6	84
44	Adsorption characteristics of metal-organic framework MIL-101(Cr) towards sulfamethoxazole and its persulfate oxidation regeneration. <i>RSC Advances</i> , 2018, 8, 27623-27630.	1.7	65
45	Synthetic magnetite, maghemite, and haematite activation of persulphate for orange G degradation. <i>Journal of Contaminant Hydrology</i> , 2018, 215, 73-85.	1.6	14
46	Applications and factors influencing of the persulfate-based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds. <i>Journal of Hazardous Materials</i> , 2018, 359, 396-407.	6.5	164
47	Oxidative degradation of Bisphenol A by carbocatalytic activation of persulfate and peroxymonosulfate with reduced graphene oxide. <i>Journal of Hazardous Materials</i> , 2018, 360, 141-149.	6.5	83
48	Wood-Biochar-Supported Magnetite Nanoparticles for Remediation of PAH-Contaminated Estuary Sediment. <i>Catalysts</i> , 2018, 8, 73.	1.6	79
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51	Steel wool and carbonyl iron powder activation of persulphate for the degradation of pollutants. <i>Journal of Water Process Engineering</i> , 2018, 25, 58-69.	2.6	6
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53	Advanced oxidation of pharmaceuticals by the ozone-activated peroxymonosulfate process: the role of different oxidative species. <i>Journal of Hazardous Materials</i> , 2018, 360, 204-213.	6.5	59
54	Persulfate enhanced photoelectrocatalytic degradation of cyanide using a CuFe ₂ O ₄ modified graphite felt cathode. <i>Chemical Engineering Journal</i> , 2018, 347, 535-542.	6.6	44

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55	Oxidation of fluoroquinolone antibiotics by peroxymonosulfate without activation: Kinetics, products, and antibacterial deactivation. <i>Water Research</i> , 2018, 145, 210-219.	5.3	95
56	Tree gum-based renewable materials: Sustainable applications in nanotechnology, biomedical and environmental fields. <i>Biotechnology Advances</i> , 2018, 36, 1984-2016.	6.0	106
57	Carbon and hydrogen stable isotope analysis for characterizing the chemical degradation of tributyl phosphate. <i>Chemosphere</i> , 2018, 212, 133-142.	4.2	19
58	Kinetics and mechanisms of the degradation of PPCPs by zero-valent iron (Fe ⁰) activated peroxydisulfate (PDS) system in groundwater. <i>Journal of Hazardous Materials</i> , 2018, 357, 207-216.	6.5	79
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62	How does intensification influence the operational and environmental performance of photo-Fenton processes at acidic and circumneutral pH. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4367-4380.	2.7	11
63	A new method for assessment of the sludge disintegration degree with the use of differential centrifugal sedimentation. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3086-3093.	1.2	10
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69	A comparative study of dinitrodiazophenol industrial wastewater treatment: Ozone/hydrogen peroxide versus microwave/persulfate. <i>Chemical Engineering Research and Design</i> , 2019, 130, 39-47.	2.7	13
70	Efficient degradation of atrazine with porous sulfurized Fe ₂ O ₃ as catalyst for peroxymonosulfate activation. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118056.	10.8	243
71	Cooperative Pollutant Adsorption and Persulfate-Driven Oxidation on Hierarchically Ordered Porous Carbon. <i>Environmental Science & Technology</i> , 2019, 53, 10352-10360.	4.6	127
72	Electrolysis-Assisted Mn(II)/Sulfite Process for Organic Contaminant Degradation at Near-Neutral pH. <i>Water (Switzerland)</i> , 2019, 11, 1608.	1.2	13

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73	Transformation and degradation of recalcitrant organic matter in membrane bioreactor leachate effluent by the O ₃ /H ₂ O ₂ process. Environmental Science: Water Research and Technology, 2019, 5, 1748-1757.	1.2	13
74	1,4-Dioxane as an emerging water contaminant: State of the science and evaluation of research needs. Science of the Total Environment, 2019, 690, 853-866.	3.9	85
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77	Reactivity of chromophoric dissolved organic matter (CDOM) to sulfate radicals: Reaction kinetics and structural transformation. Water Research, 2019, 163, 114846.	5.3	33
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81	Degradation of norfloxacin in aqueous solution with UV/peroxydisulfate. Water Science and Technology, 2019, 79, 2387-2394.	1.2	6
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85	Persulfate activation with sawdust biochar in aqueous solution by enhanced electron donor-transfer effect. Science of the Total Environment, 2019, 690, 768-777.	3.9	174
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92	Oxidation of Tetrahydro- β -carbolines by Persulfate. Organic Letters, 2019, 21, 7475-7477.	2.4	11
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99	Vanadium oxide activates persulfate for degradation of polycyclic aromatic hydrocarbons in aqueous system. Chemical Engineering Journal, 2019, 364, 79-88.	6.6	52
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107	Persulfate activation for efficient degradation of norfloxacin by a rGO-Fe ₃ O ₄ composite. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 163-169.	2.7	47
108	Impacts of advanced oxidation processes on disinfection byproducts from dissolved organic matter upon post-chlor(am)ination: A critical review. Chemical Engineering Journal, 2019, 375, 121929.	6.6	59

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109	Activation of persulfate by photoexcited dye for antibiotic degradation: Radical and nonradical reactions. <i>Chemical Engineering Journal</i> , 2019, 375, 122070.	6.6	54
110	Simulated solar photo-assisted decomposition of peroxymonosulfate. Radiation filtering and operational variables influence on the oxidation of aqueous bezafibrate. <i>Water Research</i> , 2019, 162, 383-393.	5.3	21
111	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> , 2019, 374, 100-111.	6.6	51
112	Activation of persulfate ions by TiO ₂ /carbon dots nanocomposite under visible light for photocatalytic degradations of organic contaminants. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12510-12522.	1.1	16
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114	Different mechanisms between biochar and activated carbon for the persulfate catalytic degradation of sulfamethoxazole: Roles of radicals in solution or solid phase. <i>Chemical Engineering Journal</i> , 2019, 375, 121908.	6.6	113
115	Efficient peroxydisulfate activation by iodine vacancy rich bismuth oxyiodide: A vacancy induced mechanism. <i>Chemical Engineering Journal</i> , 2019, 375, 121971.	6.6	50
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117	Edge-nitrogenated biochar for efficient peroxydisulfate activation: An electron transfer mechanism. <i>Water Research</i> , 2019, 160, 405-414.	5.3	566
118	Hydrogel as a miniature hydrogen production reactor to enhance photocatalytic hydrogen evolution activities of CdS and ZnS quantum dots derived from modified gel crystal growth method. <i>Chemical Engineering Journal</i> , 2019, 373, 814-820.	6.6	32
119	Removal of methamphetamine by UV-activated persulfate: Kinetics and mechanisms. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 379, 32-38.	2.0	25
120	Efficient activation of persulfate decomposition by Cu ₂ FeSnS ₄ nanomaterial for bisphenol A degradation: Kinetics, performance and mechanism studies. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 278-285.	10.8	107
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122	Atrazine degradation using Fe ₃ O ₄ -sepiolite catalyzed persulfate: Reactivity, mechanism and stability. <i>Journal of Hazardous Materials</i> , 2019, 377, 62-69.	6.5	85
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127	Electrochemical oxidation of organics in sulfate solutions on boron-doped diamond electrode: Multiple pathways for sulfate radical generation. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 156-165.	10.8	91
128	Persulfate-based advanced oxidation processes (AOPs) for organic-contaminated soil remediation: A review. <i>Chemical Engineering Journal</i> , 2019, 372, 836-851.	6.6	435
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131	Homogeneous and heterogeneous peroxymonosulfate activation by transition metals for the degradation of industrial leather dye. <i>Journal of Cleaner Production</i> , 2019, 228, 222-230.	4.6	82
132	Comparative study of Bisphenol A degradation via heterogeneously catalyzed H ₂ O ₂ and persulfate: Reactivity, products, stability and mechanism. <i>Chemical Engineering Journal</i> , 2019, 369, 470-479.	6.6	60
133	Easily Regenerative Carbon/Boehmite Composites with Enhanced Cyclic Adsorption Performance toward Methylene Blue in Batch and Continuous Aqueous Systems. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6635-6643.	1.8	18
134	Metal-Organic Frameworks and Their Derived Materials: Emerging Catalysts for a Sulfate Radicals-Based Advanced Oxidation Process in Water Purification. <i>Small</i> , 2019, 15, e1900744.	5.2	170
135	Tetracycline degradation by persulfate activated with magnetic Cu/CuFe ₂ O ₄ composite: Efficiency, stability, mechanism and degradation pathway. <i>Journal of Hazardous Materials</i> , 2019, 373, 85-96.	6.5	280
136	Degradation of Nitrobenzene-containing wastewater by ozone/persulfate oxidation process in a rotating packed bed. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 99, 1-8.	2.7	38
137	Multi-wavelength spectrophotometric measurement of persulfates using 2,2-azino-bis(3-ethylbenzothiazoline-6-sulfonate) (ABTS) as indicator. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 214-220.	2.0	40
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141	Evaluation of transformation products from chemical oxidation of micropollutants in wastewater by photoassisted generation of sulfate radicals. <i>Chemosphere</i> , 2019, 226, 509-519.	4.2	30
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146	Remediation of phenanthrene contaminated soil by coupling soil washing with Tween 80, oxidation using the UV/S ₂ O ₈ ²⁻ process and recycling of the surfactant. <i>Chemical Engineering Journal</i> , 2019, 369, 1014-1023.	6.6	75
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701	Protrudent Iron Single-Atom Accelerated Interfacial Piezoelectric Polarization for Self-Powered Water Motion Triggered Fenton-Like Reaction. Small, 2022, 18, e2105279.	5.2	58
702	Unveiling the role of cobalt species in the Co/N-C catalysts-induced peroxymonosulfate activation process. Journal of Hazardous Materials, 2022, 426, 127784.	6.5	34
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706	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> , 2022, 431, 133916.	6.6	107
707	A stable biochar supported S-nZVI to activate persulfate for effective dichlorination of atrazine. <i>Chemical Engineering Journal</i> , 2022, 431, 133937.	6.6	39
708	Fe-based metal organic frameworks (Fe-MOFs) for organic pollutants removal via photo-Fenton: A review. <i>Chemical Engineering Journal</i> , 2022, 431, 133932.	6.6	101
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784	Comparison of sunlight-AOPs for levofloxacin removal: kinetics, transformation products, and toxicity assay on <i>Escherichia coli</i> and <i>Micrococcus flavus</i> . <i>Environmental Science and Pollution Research</i> , 2022, 29, 58201-58211.	2.7	6
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787	Construction of ultra-high defective iron-based metal organic frameworks with small molecule acid regulator for enhanced degradation of sulfamethoxazole. <i>Journal of Cleaner Production</i> , 2022, 348, 131367.	4.6	13
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