

Mechanism of Persulfate Activation by Phenols

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 134-141.	10.8	437
3	High Catalytic Synergism between the Components of the Rhenium Complex@Silver Hybrid Material in Alkene Epoxidations. <i>ChemCatChem</i> , 2014, 6, 1935-1939.	1.8	12
4	Degradation of aniline with zero-valent iron as an activator of persulfate in aqueous solution. <i>RSC Advances</i> , 2014, 4, 3502-3511.	1.7	123
5	Comment on Electrolytic Manipulation of Persulfate Reactivity by Iron Electrodes for TCE Degradation in Groundwater. <i>Environmental Science & Technology</i> , 2014, 48, 4630-4631.	4.6	28
6	Efficient Peroxydisulfate Activation Process Not Relying on Sulfate Radical Generation for Water Pollutant Degradation. <i>Environmental Science & Technology</i> , 2014, 48, 5868-5875.	4.6	634
7	Peroxymonosulfate activation by phosphate anion for organics degradation in water. <i>Chemosphere</i> , 2014, 117, 582-585.	4.2	186
8	Electrolytic Manipulation of Persulfate Reactivity by Iron Electrodes for Trichloroethylene Degradation in Groundwater. <i>Environmental Science & Technology</i> , 2014, 48, 656-663.	4.6	224
9	Activating persulfate by FeO coupling with weak magnetic field: Performance and mechanism. <i>Water Research</i> , 2014, 62, 53-62.	5.3	152
10	Activation of Persulfate by Surfactants under Acidic and Basic Conditions. <i>Ground Water Monitoring and Remediation</i> , 2014, 34, 51-59.	0.6	13
11	Optimization of sonochemical degradation of tetracycline in aqueous solution using sono-activated persulfate process. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 76.	1.4	62
12	New insights into atrazine degradation by cobalt catalyzed peroxymonosulfate oxidation: Kinetics, reaction products and transformation mechanisms. <i>Journal of Hazardous Materials</i> , 2015, 285, 491-500.	6.5	307
13	Rapid and continuous oxidation of organic contaminants with ascorbic acid and a modified ferric/persulfate system. <i>Chemical Engineering Journal</i> , 2015, 270, 73-79.	6.6	92
14	Degradation and dechlorination of pentachlorophenol by microwave-activated persulfate. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4670-4679.	2.7	68
15	Activation of persulfates by carbon nanotubes: Oxidation of organic compounds by nonradical mechanism. <i>Chemical Engineering Journal</i> , 2015, 266, 28-33.	6.6	556
16	Formation of brominated disinfection by-products and bromate in cobalt catalyzed peroxymonosulfate oxidation of phenol. <i>Water Research</i> , 2015, 84, 1-7.	5.3	112
17	Performance of 1-methylnaphthalene degradation by dual oxidant of persulfate/calcium peroxide: Implication for ISCO. <i>Chemical Engineering Journal</i> , 2015, 279, 538-546.	6.6	55
18	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , 2015, 5, 4629-4636.	5.5	642
19	Manipulation of Persistent Free Radicals in Biochar To Activate Persulfate for Contaminant Degradation. <i>Environmental Science & Technology</i> , 2015, 49, 5645-5653.	4.6	684

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26	Efficient transformation of DDTs with Persulfate Activation by Zero-valent Iron Nanoparticles: A Mechanistic Study. Journal of Hazardous Materials, 2016, 316, 232-241.	6.5	181
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37	In situ solidification and in situ chemical oxidation combined in a single application to reduce contaminant mass and leachability in soil. Journal of Environmental Chemical Engineering, 2016, 4, 2857-2864.	3.3	10

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39	Remediation of hexachlorocyclohexanes by electrochemically activated persulfates. <i>Environmental Science and Pollution Research</i> , 2016, 23, 765-773.	2.7	44
40	Degradation of tetrabromobisphenol A in heat activated persulfate oxidation process. <i>RSC Advances</i> , 2016, 6, 29718-29726.	1.7	24
41	Activated persulfate for organic chemical degradation: A review. <i>Chemosphere</i> , 2016, 151, 178-188.	4.2	1,144
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49	Insights into the synergy of zero-valent iron and copper oxide in persulfate oxidation of Orange G solutions. <i>Research on Chemical Intermediates</i> , 2016, 42, 481-497.	1.3	15
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51	Oxidative degradation of benzoic acid using Fe ⁰ - and sulfidized Fe ⁰ -activated persulfate: A comparative study. <i>Chemical Engineering Journal</i> , 2017, 315, 426-436.	6.6	111
52	Kinetics and Mechanism of Ultrasonic Activation of Persulfate: An in Situ EPR Spin Trapping Study. <i>Environmental Science & Technology</i> , 2017, 51, 3410-3417.	4.6	325
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58	Catalyst-free activation of peroxides under visible LED light irradiation through photoexcitation pathway. <i>Journal of Hazardous Materials</i> , 2017, 329, 272-279.	6.5	22
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70	Degradation of 2,4-dichlorophenoxyacetic acid in water by persulfate activated with FeS (mackinawite). <i>Chemical Engineering Journal</i> , 2017, 313, 498-507.	6.6	167
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75	Activation of peroxymonosulfate by Fe ₇₈ Si ₉ B ₁₃ metallic glass: The influence of crystallization. <i>Journal of Alloys and Compounds</i> , 2017, 728, 525-533.	2.8	43
76	Reactive oxygen species and associated reactivity of peroxymonosulfate activated by soluble iron species. <i>Journal of Contaminant Hydrology</i> , 2017, 205, 70-77.	1.6	25
77	Metal-free carbon materials-catalyzed sulfate radical-based advanced oxidation processes: A review on heterogeneous catalysts and applications. <i>Chemosphere</i> , 2017, 189, 224-238.	4.2	320
78	Persulfate enhanced photocatalytic degradation of bisphenol A by g-C ₃ N ₄ nanosheets under visible light irradiation. <i>Chemosphere</i> , 2017, 189, 115-122.	4.2	123
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80	Treatment of refractory contaminants by sludge-derived biochar/persulfate system via both adsorption and advanced oxidation process. <i>Chemosphere</i> , 2017, 185, 754-763.	4.2	170
81	Heterogeneous degradation of refractory pollutants by peroxymonosulfate activated by CoOx-doped ordered mesoporous carbon. <i>Chemical Engineering Journal</i> , 2017, 328, 1112-1121.	6.6	256
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83	Enhanced degradation of 2,4-dinitrotoluene in groundwater by persulfate activated using iron-carbon micro-electrolysis. <i>Chemical Engineering Journal</i> , 2017, 311, 183-190.	6.6	72
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107	Impacts of inorganic anions and natural organic matter on thermally activated persulfate oxidation of BTEX in water. <i>Chemosphere</i> , 2018, 190, 296-306.	4.2	204
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111	Selective degradation of sulfonamide antibiotics by peroxymonosulfate alone: Direct oxidation and nonradical mechanisms. <i>Chemical Engineering Journal</i> , 2018, 334, 2539-2546.	6.6	284
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115	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
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117	Performances and mechanisms of efficient degradation of atrazine using peroxymonosulfate and ferrate as oxidants. <i>Chemical Engineering Journal</i> , 2018, 353, 533-541.	6.6	200
118	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
119	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
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124	Degradation of aqueous 2,4,4'-Trihydroxybenzophenone by persulfate activated with nitrogen doped carbonaceous materials and the formation of dimer products. <i>Water Research</i> , 2018, 143, 176-187.	5.3	165
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129	Photocatalytic potential of bio-engineered copper nanoparticles synthesized from <i>Ficus carica</i> extract for the degradation of toxic organic dye from waste water: Growth mechanism and study of parameter affecting the degradation performance. <i>Materials Research Bulletin</i> , 2019, 120, 110583.	2.7	54
130	The hetero-assembly of reduced graphene oxide and hydroxide nanosheets as superlattice materials in PMS activation. <i>Carbon</i> , 2019, 155, 740-755.	5.4	58
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132	The influence of bromide on the degradation of sulfonamides in UV/free chlorine treatment: Degradation mechanism, DBPs formation and toxicity assessment. <i>Chemical Engineering Journal</i> , 2019, 362, 692-701.	6.6	34
133	Synergic thermal activation of peroxydisulfate intercalated Mg/Al layered double hydroxide at a low temperature. <i>Chemical Engineering Journal</i> , 2019, 363, 133-140.	6.6	12
134	Activation of persulfate by photoexcited dye for antibiotic degradation: Radical and nonradical reactions. <i>Chemical Engineering Journal</i> , 2019, 375, 122070.	6.6	54
135	An often-overestimated adverse effect of halides in heat/persulfate-based degradation of wastewater contaminants. <i>Environment International</i> , 2019, 130, 104918.	4.8	36
136	Cyanideâ€“Free Oneâ€“Pot Synthesis of Methacrylic Esters from Acetone. <i>Chemistry - A European Journal</i> , 2019, 25, 10913-10917.	1.7	2
137	Geoenvironmental characteristics of bisphenol A contaminated soil after persulfate treatment with different activation/enhancement methods. <i>PLoS ONE</i> , 2019, 14, e0214024.	1.1	2
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139	Ofloxacin degradation over Cuâ€“Ce tyre carbon catalysts by the microwave assisted persulfate process. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 149-159.	10.8	92
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