Application of peroxymonosulfate and its activation me environmental organic pollutants: Review

Chemical Engineering Journal

310, 41-62

DOI: 10.1016/j.cej.2016.10.064

Citation Report

#	Article	IF	Citations
1	Chemical oxidation of benzene and trichloroethylene by a combination of peroxymonosulfate and permanganate linked by in-situ generated colloidal/amorphous MnO2. Chemical Engineering Journal, 2017, 313, 815-825.	6.6	58
2	Highly efficient removal of organic contaminants based on peroxymonosulfate activation by iron phthalocyanine: mechanism and the bicarbonate ion enhancement effect. Catalysis Science and Technology, 2017, 7, 934-942.	2.1	110
3	Nanoscale Fe/Ag particles activated persulfate: optimization using response surface methodology. Water Science and Technology, 2017, 75, 2216-2224.	1.2	12
4	Simultaneous use of iron and copper anodes in photoelectro-Fenton process: concurrent removals of dye and cadmium. Water Science and Technology, 2017, 75, 1732-1742.	1.2	12
5	Photocatalytic degradation of food dye by Fe3O4â€“TiO2 nanoparticles in presence of peroxymonosulfate: The effect of UV sources. Journal of Environmental Chemical Engineering, 2017, 5, 2459-2468.	3.3	80
6	Activation of peroxydisulfate by gasâ€“liquid pulsed discharge plasma to enhance the degradation of p-nitrophenol. Plasma Science and Technology, 2017, 19, 064017.	0.7	17
7	Removal of pendimethalin from soil washing effluents using electrolytic and electro-irradiated technologies based on diamond anodes. Applied Catalysis B: Environmental, 2017, 213, 190-197.	10.8	35
8	Degradation and mineralization of phenol in aqueous medium by heterogeneous monopersulfate activation on nanostructured cobalt based-perovskite catalysts ACoO 3 (A = La, Ba, Sr and Ce): Characterization, kinetics and mechanism study. Applied Catalysis B: Environmental, 2017, 215, 60-73.	10.8	174
9	Oxidative removal of NO from flue gas using ultrasound, Mn2+/Fe2+ and heat coactivation of Oxone in an ultrasonic bubble reactor. Chemical Engineering Journal, 2017, 326, 1166-1176.	6.6	87
10	ZIF-8 derived nitrogen-doped porous carbon as metal-free catalyst of peroxymonosulfate activation. Environmental Science and Pollution Research, 2017, 24, 16276-16288.	2.7	76
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12	Ultrasound enhanced heterogeneous activation of peroxymonosulfate by a Co-NiOx catalyst. Water Science and Technology, 2017, 76, 1436-1446.	1.2	16
13	Both degradation and AOX accumulation are significantly enhanced in UV/peroxymonosulfate/4-chlorophenol/Cl^{â˜} system: two sides of the same coin?. RSC Advances, 2017, 7, 12318-12321.	1.7	33
14	Efficient degradation of 2,4-dichlorophenoxyacetic acid by peroxymonosulfate/magnetic copper ferrite nanoparticles/ozone: A novel combination of advanced oxidation processes. Chemical Engineering Journal, 2017, 320, 436-447.	6.6	241
15	Excellent performance of cobalt-impregnated activated carbon in peroxymonosulfate activation for acid orange 7 oxidation. Environmental Science and Pollution Research, 2017, 24, 9651-9661.	2.7	44
16	Wastewater treatment by means of advanced oxidation processes at basic pH conditions: A review. Chemical Engineering Journal, 2017, 320, 608-633.	6.6	838
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21	Metal-based mesoporous materials and their application as catalysts for the degradation of methyl orange azo dye. Journal of Environmental Chemical Engineering, 2017, 5, 5207-5214.	3.3	21
22	Cobalt particles encapsulated and nitrogen-doped bamboo-like carbon nanotubes as a catalytic and adsorptive bifunctional material for efficient removal of organic pollutants from wastewater. Journal of Environmental Chemical Engineering, 2017, 5, 5322-5330.	3.3	23
23	Efficient Bacterial Inactivation by Transition Metal Catalyzed Auto-Oxidation of Sulfite. Environmental Science & Technology, 2017, 51, 12663-12671.	4.6	120
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28	Spinel manganites synthesized by combustion method: Structural characterization and catalytic activity in the oxidative degradation of organic pollutants. Journal of Environmental Chemical Engineering, 2017, 5, 3690-3697.	3.3	13
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40	Heterogeneous degradation of refractory pollutants by peroxymonosulfate activated by CoOx-doped ordered mesoporous carbon. Chemical Engineering Journal, 2017, 328, 1112-1121.	6.6	256
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