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Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review

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#	Paper	IF	Citations
773	A Comparative Electrochemical-Ozone Treatment for Removal of Phenolphthalein. <b>2016</b> , 2016, 1-9		6
772	Electro-Fenton-like reactions of transition metal ions with electrogenerated hydrogen peroxide. <b>2016</b> ,		14
771	Degradation of atrazine by a novel Fenton-like process and assessment the influence on the treated soil. <b>2016</b> , 312, 184-191		135
770	Curable Imidazolium Poly(ionic liquid)/Ionic Liquid Coating for Containment and Decontamination of Toxic Industrial Chemical-Contacted Substrates. <b>2016</b> , 55, 6547-6550		12
769	A combined biological removal of Cd(2+) from aqueous solutions using Phanerochaete chrysosporium and rice straw. <b>2016</b> , 130, 87-92		15
768	Parametric analysis of the operation of a non-thermal plasma reactor for the remediation of NAPL-polluted soils. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 353-361	14.7	29
767	Influence of CuO morphology on the enhanced catalytic degradation of methylene blue and methyl orange. <b>2016</b> , 6, 95292-95305		39
766	Oxidizing Impact Induced by Mackinawite (FeS) Nanoparticles at Oxidic Conditions due to Production of Hydroxyl Radicals. <b>2016</b> , 50, 11646-11653		99
765	Green and sustainable remediation (GSR) evaluation: framework, standards, and tool. A case study in Taiwan. <b>2016</b> , 23, 21712-21725		20
764	Ozone enhances biodegradability of heavy hydrocarbons in soil. <b>2016</b> , 11, 7-17		23
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760	Ecotoxicological impact of two soil remediation treatments in <i>Lactuca sativa</i> seeds. <b>2016</b> , 159, 193-198		35
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758	Selection of oxidant doses for in situ chemical oxidation of soils contaminated by polycyclic aromatic hydrocarbons (PAHs): A review. <b>2016</b> , 312, 280-297		96
757	Development of an advanced chemical oxidation wastewater treatment system for the batik industry in Malaysia. <b>2016</b> , 6, 25222-25241		27

756	Organic compounds removal in soil in a seven-needle-to-net pulsed discharge plasma system. <b>2016</b> , 80, 69-75		11
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754	Methylparaben removal using heterogeneous photocatalysis: effect of operational parameters and mineralization/biodegradability studies. <b>2017</b> , 24, 6022-6030		16
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751	Effect of various chemical oxidation agents on soil microbial communities. <i>Chemical Engineering Journal</i> , <b>2017</b> , 314, 257-265	14.7	31
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749	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. <b>2017</b> , 493, 17-23		206
748	Oxidative degradation of benzoic acid using Fe <sup>0</sup> - and sulfidized Fe <sup>0</sup> -activated persulfate: A comparative study. <i>Chemical Engineering Journal</i> , <b>2017</b> , 315, 426-436	14.7	68
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738	Fabrication of water-compatible molecularly imprinted polymer based on Cyclodextrin modified magnetic chitosan and its application for selective removal of bisphenol A from aqueous solution. <b>2017</b> , 77, 113-121	56
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736	Pharmaceuticals, benzene, toluene and chlorobenzene removal from contaminated groundwater by combined UV/HO photo-oxidation and aeration. <b>2017</b> , 120, 245-255	32
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722	Evaluation of pulsed corona discharge plasma for the treatment of petroleum-contaminated soil. <b>2017</b> , 24, 1450-1458	17
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681	Cadmium immobilization in river sediment using stabilized nanoscale zero-valent iron with enhanced transport by polysaccharide coating. <b>2018</b> , 210, 191-200		57
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679	Degradation of di (2-ethylhexyl) phthalate in sediment by a surfactant-enhanced Fenton-like process. <b>2018</b> , 198, 327-333		13
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671	Quantitative relationships between molecular parameters and reaction rate of organic chemicals in Fenton process in temperature range of 15.8 °C-30 °C. <i>Chemical Engineering Journal</i> , <b>2018</b> , 350, 534-540	14.7	15
670	4-Phenoxyphenol-Functionalized Reduced Graphene Oxide Nanosheets: A Metal-Free Fenton-Like Catalyst for Pollutant Destruction. <b>2018</b> , 52, 747-756		106
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668	Strategies for oxidation of PAHs in aged contaminated soil by batch reactors. <b>2018</b> , 151, 76-82		21
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665	Organics Wastewater Degradation by a Mesoporous Chromium-Functionalized $\gamma$ -Al <sub>2</sub> O <sub>3</sub> with H <sub>2</sub> O <sub>2</sub> Assistance. <b>2018</b> , 229, 1		3
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662	Assessment of carbon monoxide formation in Fenton oxidation process: The critical role of pollutant nature and operating conditions. <b>2018</b> , 232, 55-59		14
661	BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <b>2018</b> , 254, 76-93		288
660	Novel iron bound to soil organic matter catalyzes H <sub>2</sub> O <sub>2</sub> to oxidize long-chain alkanes effectively in soil. <i>Chemical Engineering Journal</i> , <b>2018</b> , 339, 566-574	14.7	16
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658	Tween 80 surfactant-enhanced bioremediation: toward a solution to the soil contamination by hydrophobic organic compounds. <b>2018</b> , 38, 17-30		57
657	TiO <sub>2</sub> -MgO mixed oxide nanomaterials for solar energy conversion. <b>2018</b> , 300, 39-49		13
656	Purification of textile wastewater by using coated Sr/S/N doped TiO <sub>2</sub> nanolayers on glass orbs. <b>2018</b> , 35, 1441-1449		5
655	Enhanced Fenton degradation of polychlorinated biphenyls in capacitor-oil-contaminated soil by chelating agents. <i>Chemical Engineering Journal</i> , <b>2018</b> , 333, 370-379	14.7	20
654	Enhanced usage of visible light by BiSex for photocatalytic degradation of methylene blue in water via the tunable band gap and energy band position. <b>2018</b> , 171, 538-547		17
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651	Oxidative degradation of landfill leachate by catalysis of CeMnOx/TiO <sub>2</sub> in supercritical water: Mechanism and kinetic study. <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 578-586	14.7	34
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646	Remediation of soil contaminated by fluorene using needle-plate pulsed corona discharge plasma. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 2124-2133	14.7	30
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613	Selective prepared carbon nanomaterials for advanced photocatalytic application in environmental pollutant treatment and hydrogen production. <b>2018</b> , 239, 408-424	300

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611	Natural sunlight driven highly efficient photocatalysis for simultaneous degradation of rhodamine B and methyl orange using I/C codoped TiO photocatalyst. <b>2018</b> , 360, 356-363		49
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609	Applications and factors influencing of the persulfate-based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds. <b>2018</b> , 359, 396-407		101
608	Nanoremediation of cadmium contaminated river sediments: Microbial response and organic carbon changes. <b>2018</b> , 359, 290-299		84
607	Performance and toxicity assessment of nanoscale zero valent iron particles in the remediation of contaminated soil: A review. <b>2018</b> , 210, 1145-1156		100
606	Synthesis of a MnO/FeO/diatomite nanocomposite as an efficient heterogeneous Fenton-like catalyst for methylene blue degradation. <b>2018</b> , 9, 1940-1950		27
605	Semiconductor/boron nitride composites: Synthesis, properties, and photocatalysis applications. <b>2018</b> , 238, 6-18		218
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603	Impact of biochar amendment in agricultural soils on the sorption, desorption, and degradation of pesticides: A review. <b>2018</b> , 645, 60-70		138
602	Optimization of integrated ultrasonic-Fenton system for metal removal and dewatering of anaerobically digested sludge by Box-Behnken design. <b>2018</b> , 645, 573-584		35
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600	Superhydrophobic kaolinite modified graphene oxide-melamine sponge with excellent properties for oil-water separation. <b>2018</b> , 163, 63-71		33
599	Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis. <b>2018</b> , 368, 80-92		258
598	Microwave-assisted valorization of pig bristles: towards visible light photocatalytic chalcocite composites. <b>2018</b> , 20, 3001-3007		14
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591	Synthesis of stable and easily recycled ferric oxides assisted by Rhodamine B for efficient degradation of organic pollutants in heterogeneous photo-Fenton system. <b>2018</b> , 196, 1501-1507	22
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584	The combined effects of surfactant solubilization and chemical oxidation on the removal of polycyclic aromatic hydrocarbon from soil. <b>2019</b> , 647, 1106-1112	47
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582	A comparative study of dinitrodiazophenol industrial wastewater treatment: Ozone/hydrogen peroxide versus microwave/persulfate. <b>2019</b> , 130, 39-47	10
581	Controllable synthesis of cerium zirconium oxide nanocomposites and their application for photocatalytic degradation of sulfonamides. <b>2019</b> , 259, 118107	37
580	Functionalized MIL-53(Fe) as efficient adsorbents for removal of tetracycline antibiotics from aqueous solution. <b>2019</b> , 290, 109642	61
579	Degradation of dimethyl phthalate using persulfate activated by UV and ferrous ions: optimizing operational parameters mechanism and pathway. <b>2019</b> , 17, 685-700	31
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274	The impact of the Au/Ag ratio on the photocatalytic activity of bimetallic alloy AuAg nanoparticle-decorated ZnO nanorods under UV irradiation. <b>2021</b> , 154, 110038	6
273	Recent developments in recalcitrant organic pollutants degradation using immobilized photocatalysts. <b>2021</b> , 127, 1	2
272	A comprehensive feasibility study of effectiveness and environmental impact of PAH bioremediation using an indigenous microbial degrader consortium and a novel strain <i>Stenotrophomonas maltophilia</i> CPHE1 isolated from an industrial polluted soil. <b>2021</b> , 289, 112512	5
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270	Effective removal of 2,4,6-trichlorophenol by FeSx/talc composite under microwave. <b>2021</b> , 9, 105287	1
269	The synergistic effect of O <sub>3</sub> and H <sub>2</sub> O <sub>2</sub> on the Butyl p-hydroxybenzoate photo-catalytic degradability by UVC/ZnO: Efficiency, kinetic, pathway, mechanism. <b>2021</b> , 239, 166673	1
268	High-performance Fe-doped ZIF-8 adsorbent for capturing tetracycline from aqueous solution. <b>2021</b> , 416, 126046	16
267	Effects of wheat straw biochar amendments to soil on the fate of deltamethrin and soil properties. <b>2021</b> , 23, 101681	4
266	Recent Advances of Nanoremediation Technologies for Soil and Groundwater Remediation: A Review. <b>2021</b> , 13, 2186	11
265	Comparative study of P25/BiOCl mixtures as photocatalysts in Acid Orange 7 degradation. 25-28	
264	Metalloporphyrin-based D-A type conjugated organic polymer nanotube for efficient photocatalytic degradation. <b>2021</b> , 291, 120108	14
263	Visible Light-Driven GO/TiO <sub>2</sub> -CA Nano-Photocatalytic Membranes: Assessment of Photocatalytic Response, Antifouling Character and Self-Cleaning Ability. <b>2021</b> , 11,	4
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261	Titanium Dioxide-Based Photocatalysts for Degradation of Emerging Contaminants including Pharmaceutical Pollutants. <b>2021</b> , 11, 8674	4
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258	Future research needs for environmental science in China. <b>2021</b> ,	0
257	Fundamentals of Functionalized Carbon Nanomaterials ( CNMs ) for Environmental Devices and Techniques. <b>2021</b> , 173-195	
256	Promotion of sulfameter degradation by coupling persulfate and photocatalytic advanced oxidation processes with Fe- doped MOFs. <b>2021</b> , 119632	1
255	Remediation of real soil polluted with hexachlorocyclohexanes (HCH and EHCH) using combined thermal and alkaline activation of persulfate: Optimization of the operating conditions. <b>2021</b> , 270, 118795	6
254	Degradation of saccharin by UV/HO and UV/PS processes: A comparative study. <b>2022</b> , 288, 132337	3
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251	Plasma electrolytic synthesis and characterization of oxide coatings with MWO <sub>4</sub> (M = Co, Ni, Cu) as photo-Fenton heterogeneous catalysts. <b>2021</b> , 424, 127640		1
250	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. <b>2021</b> , 420, 126534		36
249	Remediation of polycyclic aromatic hydrocarbons by sulfate radical advanced oxidation: Evaluation of efficiency and ecological impact. <b>2021</b> , 223, 112594		1
248	Fabrication of ferrous tungstate with enhanced sonocatalytic performance for meloxicam removal. <b>2021</b> , 627, 127222		1
247	Highly effective removal of bisphenol A by greigite/persulfate in spiked soil: Heterogeneous soil/water system balance and degradation. <b>2021</b> , 280, 130655		1
246	Concerted high innergenerated-H <sub>2</sub> O <sub>2</sub> photocatalysis and Photo-Fenton degradation of organic pollutants over SCNO@CdS. <b>2021</b> , 420, 113477		1
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241	A review and roadmap for developing microbial electrochemical cell-based biosensors for recalcitrant environmental contaminants, emphasis on aromatic compounds. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130245	14.7	11
240	Optimization of thermally activated persulfate pretreatment of corn straw and its effect on anaerobic digestion performance and stability. <b>2021</b> , 154, 106216		5
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238	Citric acid-assisted ultrasmall CeO <sub>2</sub> nanoparticles for efficient photocatalytic degradation of glyphosate. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130640	14.7	13
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236	Highly efficient visible-light-driven photocatalytic degradation of organic pollutants by using magnetically separable supported heterogeneous nanocomposites (SiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> /Ag <sub>2</sub> WO <sub>4</sub> ). <b>2021</b> , 16, 100554		4
235	Removal of sulfamethoxazole by ferrous iron activation of persulfate: Optimization of dosing strategy and degradation mechanism. <b>2021</b> , 799, 149159		2

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233	Review of electrochemical oxidation desulfurization for fuels and minerals. <b>2021</b> , 305, 121562		9
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214	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
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183	Recent Developments in Advanced Oxidation Processes for Organics-Polluted Soil Reclamation. <b>2022</b> , 12, 64	2
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179	Recent advances in performance improvement of Metal-organic Frameworks to remove antibiotics: Mechanism and evaluation.. <b>2021</b> , 811, 152351	3
178	Superwetting and photocatalytic Ag <sub>2</sub> O/TiO <sub>2</sub> @Cu <sub>2</sub> O <sub>4</sub> nanocomposite-coated mesh membranes for oil/water separation and soluble dye removal. <b>2022</b> , 23, 100717	4
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164	Insights into the effects of Fenton oxidation on PAH removal and indigenous bacteria in aged subsurface soil.. <b>2022</b> , 298, 118872	3
163	Emerging frontiers in microbe mediated pesticide remediation: Unveiling role of omics and In silico approaches in engineered environment.. <b>2022</b> , 299, 118851	5

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160	Review on remediation of organic-contaminated soil by discharge plasma: Plasma types, impact factors, plasma-assisted catalysis, and indexes for remediation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 135239	14.7 9
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156	Transformation of Amino Acids and Formation of Nitrophenolic Byproducts in Sulfate Radical Oxidation Processes.	
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152	Preparation and Characterization of a Newly Constructed Multifunctional Co(II)-organic Framework: Proton Conduction and Adsorption of Congo Red in Aqueous Medium.	0
151	Transformation of Amino Acids and Formation of Nitrophenolic Byproducts in Sulfate Radical Oxidation Processes.	
150	Remediation of PAHs contaminated industrial soils by hypochlorous acid: performance and mechanisms.. <b>2022</b> , 12, 10825-10834	1
149	IL-functionalized Mn(II)-doped core-shell Fe <sub>3</sub> O <sub>4</sub> @Zr-MOF nanomaterials for removal MB from wastewater based on dual adsorption/Fenton catalysis.	0
148	Biodegradable Polymeric Nanocomposites for Wastewater Treatment. <b>2022</b> , 245-298	1
147	Construction and Degradation Performance Study of Polycyclic Aromatic Hydrocarbons (PAHs) Degrading Bacterium Consortium. <b>2022</b> , 12, 2354	0
146	An insight on microbial degradation of benzo[a]pyrene: current status and advances in research.. <b>2022</b> , 38, 61	2
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142	A concise overview on pesticide detection and degradation strategies. <b>2022</b> , 34, 112-126	2
141	Fabrication and Photocatalytic Properties of Zinc Tin Oxide Nanowires Decorated with Silver Nanoparticles.. <b>2022</b> , 12,	1
140	Efficient Ni and Fe doping process in ZnO with enhanced photocatalytic activity: A theoretical and experimental investigation. <b>2022</b> , 111849	6
139	Catalytic Persulfate Activation for Oxidation of Organic Pollutants: A Critical Review on Mechanisms and Controversies. <b>2022</b> , 107654	1
138	Synergetic piezo-photocatalytic effect in ultrathin Bi <sub>2</sub> WO <sub>6</sub> nanosheets for decomposing organic dye. 1	0
137	Manipulating the morphology of 3D flower-like CoMn <sub>2</sub> O <sub>4</sub> bimetallic catalyst for enhancing the activation of peroxymonosulfate toward the degradation of selected persistent pharmaceuticals in water. <i>Chemical Engineering Journal</i> , <b>2022</b> , 436, 135244	14.7 3
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135	Fe-based Prussian blue cubes confined in graphene oxide nanosheets for the catalytic degradation of dyes in wastewater. <b>2022</b> , 288, 120676	3
134	Graphitic carbon nitride based immobilized and non-immobilized floating photocatalysts for environmental remediation.. <b>2022</b> , 134229	2
133	Transformation of amino acids and formation of nitrophenolic byproducts in sulfate radical oxidation processes.. <b>2022</b> , 431, 128648	1
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131	Remediation of petroleum hydrocarbons-contaminated soil: Analysis based on Chinese patents.. <b>2022</b> , 134173	2
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124	Highly Improved Photocatalytic Activity of Magnetically Separable Ferroferric Oxide@Zinc Oxide/Carbon Nitride Nanocomposites and Interface Mechanism. <b>2021</b> , 16,	0
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122	Insights into the generation of hydroxyl radicals from H <sub>2</sub> O <sub>2</sub> decomposition by the combination of Fe <sup>2+</sup> and chloranilic acid. 1	
121	The application of transition metal-modified biochar in sulfate radical based advanced oxidation processes.. <b>2022</b> , 113340	3
120	Effect of Annealing Temperature on Copper-Doped Nickel Oxide Nanomaterials for Efficient Degradation of Methylene Blue Under Solar Irradiation.	
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