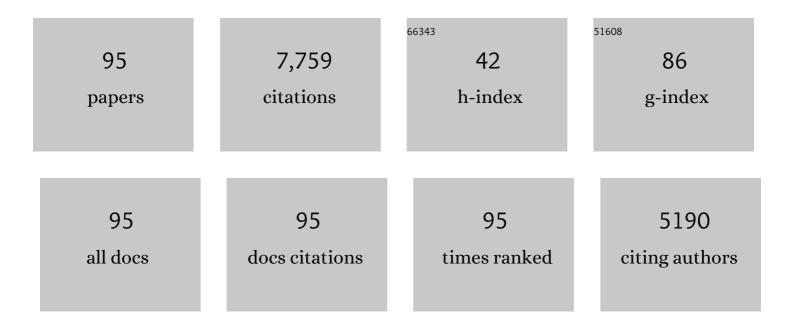
List of Publications by Year in descending order

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CHODONG FANC

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Manipulation of Persistent Free Radicals in Biochar To Activate Persulfate for Contaminant<br>Degradation. Environmental Science & Technology, 2015, 49, 5645-5653.  | 10.0 | 684       |
| 2  | Activation of Persulfate by Quinones: Free Radical Reactions and Implication for the Degradation of PCBs. Environmental Science & amp; Technology, 2013, 47, 4605-4611.  | 10.0 | 673       |
| 3  | Key Role of Persistent Free Radicals in Hydrogen Peroxide Activation by Biochar: Implications to<br>Organic Contaminant Degradation. Environmental Science & Technology, 2014, 48, 1902-1910.                          | 10.0 | 589       |
| 4  | Superoxide radical driving the activation of persulfate by magnetite nanoparticles: Implications for the degradation of PCBs. Applied Catalysis B: Environmental, 2013, 129, 325-332.                                  | 20.2 | 420       |
| 5  | Mechanistic understanding of polychlorinated biphenyls degradation by peroxymonosulfate activated<br>with CuFe2O4 nanoparticles: Key role of superoxide radicals. Chemical Engineering Journal, 2018, 348,<br>526-534. | 12.7 | 291       |
| 6  | Mechanism of hydroxyl radical generation from biochar suspensions: Implications to diethyl phthalate degradation. Bioresource Technology, 2015, 176, 210-217.  | 9.6  | 284       |
| 7  | New insight into the mechanism of peroxymonosulfate activation by sulfur-containing minerals: Role of sulfur conversion in sulfate radical generation. Water Research, 2018, 142, 208-216.                             | 11.3 | 254       |
| 8  | Photogeneration of reactive oxygen species from biochar suspension for diethyl phthalate degradation. Applied Catalysis B: Environmental, 2017, 214, 34-45.  | 20.2 | 247       |
| 9  | Fe 3 O 4 @β-CD nanocomposite as heterogeneous Fenton-like catalyst for enhanced degradation of<br>4-chlorophenol (4-CP). Applied Catalysis B: Environmental, 2016, 188, 113-122.                                       | 20.2 | 235       |
| 10 | Efficient transformation of DDTs with Persulfate Activation by Zero-valent Iron Nanoparticles: A<br>Mechanistic Study. Journal of Hazardous Materials, 2016, 316, 232-241.   | 12.4 | 181       |
| 11 | Activation of persulfate with vanadium species for PCBs degradation: A mechanistic study. Applied<br>Catalysis B: Environmental, 2017, 202, 1-11.  | 20.2 | 175       |
| 12 | A scientometric review of biochar research in the past 20Âyears (1998–2018). Biochar, 2019, 1, 23-43.  | 12.6 | 160       |
| 13 | Contribution of alcohol radicals to contaminant degradation in quenching studies of persulfate activation process. Water Research, 2018, 139, 66-73.   | 11.3 | 148       |
| 14 | Zero-valent iron activated persulfate remediation of polycyclic aromatic hydrocarbon-contaminated soils: An in situ pilot-scale study. Chemical Engineering Journal, 2019, 355, 65-75.                                 | 12.7 | 139       |
| 15 | Reductive Hexachloroethane Degradation by S <sub>2</sub> O <sub>8</sub> <sup>•–</sup> with<br>Thermal Activation of Persulfate under Anaerobic Conditions. Environmental Science &<br>Technology, 2018, 52, 8548-8557. | 10.0 | 117       |
| 16 | Limitations and prospects of sulfate-radical based advanced oxidation processes. Journal of<br>Environmental Chemical Engineering, 2020, 8, 103849.  | 6.7  | 116       |
| 17 | Redox-Active Oxygen-Containing Functional Groups in Activated Carbon Facilitate Microbial<br>Reduction of Ferrihydrite. Environmental Science & Technology, 2017, 51, 9709-9717.                                       | 10.0 | 113       |
| 18 | Mechanisms of Interaction between Persulfate and Soil Constituents: Activation, Free Radical<br>Formation, Conversion, and Identification. Environmental Science & Technology, 2018, 52,<br>14352-14361.               | 10.0 | 109       |

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|----|---|------|-----------|
| 19 | Efficient activation of persulfate decomposition by Cu2FeSnS4 nanomaterial for bisphenol A<br>degradation: Kinetics, performance and mechanism studies. Applied Catalysis B: Environmental, 2019,<br>253, 278-285.                    | 20.2 | 107       |
| 20 | Fractions of Cu, Cd, and enzyme activities in a contaminated soil as affected by applications of micro-<br>and nanohydroxyapatite. Journal of Soils and Sediments, 2013, 13, 742-752.   | 3.0  | 92        |
| 21 | Synergy between Iron and Selenide on FeSe <sub>2</sub> (111) Surface Driving Peroxymonosulfate<br>Activation for Efficient Degradation of Pollutants. Environmental Science & Technology, 2020, 54,<br>15489-15498.                   | 10.0 | 90        |
| 22 | Leachability, availability and bioaccessibility of Cu and Cd in a contaminated soil treated with apatite,<br>lime and charcoal: A five-year field experiment. Ecotoxicology and Environmental Safety, 2016, 134,<br>148-155.          | 6.0  | 88        |
| 23 | A novel peroxymonosulfate activation process by periclase for efficient singlet oxygen-mediated degradation of organic pollutants. Chemical Engineering Journal, 2021, 403, 126445.   | 12.7 | 87        |
| 24 | New Insights into the Mechanism of the Catalytic Decomposition of Hydrogen Peroxide by Activated<br>Carbon: Implications for Degradation of Diethyl Phthalate. Industrial & Engineering Chemistry<br>Research, 2014, 53, 19925-19933. | 3.7  | 86        |
| 25 | Enhanced PCBs sorption on biochars as affected by environmental factors: Humic acid and metal cations. Environmental Pollution, 2013, 172, 86-93.   | 7.5  | 84        |
| 26 | Biomass Schiff base polymer-derived N-doped porous carbon embedded with CoO nanodots for<br>adsorption and catalytic degradation of chlorophenol by peroxymonosulfate. Journal of Hazardous<br>Materials, 2020, 384, 121345.          | 12.4 | 80        |
| 27 | Peroxymonosulfate activation by localized electrons of ZnO oxygen vacancies for contaminant degradation. Chemical Engineering Journal, 2021, 416, 128996.   | 12.7 | 73        |
| 28 | Efficient transformation of DDT by peroxymonosulfate activated with cobalt in aqueous systems:<br>Kinetics, products, and reactive species identification. Chemosphere, 2016, 148, 68-76.   | 8.2  | 71        |
| 29 | Mechanism of metal sulfides accelerating Fe(II)/Fe(III) redox cycling to enhance pollutant degradation<br>by persulfate: Metallic active sites vs. reducing sulfur species. Journal of Hazardous Materials, 2021,<br>404, 124175.     | 12.4 | 71        |
| 30 | A Mechanistic Understanding of Hydrogen Peroxide Decomposition by Vanadium Minerals for Diethyl<br>Phthalate Degradation. Environmental Science & Technology, 2018, 52, 2178-2185.  | 10.0 | 69        |
| 31 | Surfactant and oxidant enhanced electrokinetic remediation of a PCBs polluted soil. Separation and Purification Technology, 2014, 123, 106-113.   | 7.9  | 66        |
| 32 | Homogenous activation of persulfate by different species of vanadium ions for PCBs degradation.<br>Chemical Engineering Journal, 2017, 323, 84-95.  | 12.7 | 61        |
| 33 | Degradation of 2,4-D in soils by Fe3O4 nanoparticles combined with stimulating indigenous microbes.<br>Environmental Science and Pollution Research, 2012, 19, 784-793.   | 5.3  | 59        |
| 34 | The degradation of diethyl phthalate by reduced smectite clays and dissolved oxygen. Chemical Engineering Journal, 2019, 355, 247-254.  | 12.7 | 56        |
| 35 | Electrokinetic delivery of persulfate to remediate PCBs polluted soils: Effect of injection spot.<br>Chemosphere, 2014, 117, 410-418.   | 8.2  | 54        |
| 36 | Immobilization of Cu and Cd in a contaminated soil: one- and four-year field effects. Journal of Soils and Sediments, 2014, 14, 1397-1406.  | 3.0  | 51        |

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|----|--|------|-----------|
| 37 | A new insight into the immobilization mechanism of Zn on biochar: the role of anions dissolved from ash. Scientific Reports, 2016, 6, 33630.   | 3.3  | 51        |
| 38 | Bioavailability and mobility of copper and cadmium in polluted soil after phytostabilization using different plants aided by limestone. Chemosphere, 2020, 242, 125252.  | 8.2  | 49        |
| 39 | Comparison of Persulfate Activation and Fenton Reaction in Remediating an Organophosphorus<br>Pesticides-Polluted Soil. Pedosphere, 2017, 27, 465-474.   | 4.0  | 48        |
| 40 | Surface-bound radical control rapid organic contaminant degradation through peroxymonosulfate activation by reduced Fe-bearing smectite clays. Journal of Hazardous Materials, 2020, 389, 121819.  | 12.4 | 48        |
| 41 | Active Iron Phases Regulate the Abiotic Transformation of Organic Carbon during Redox Fluctuation Cycles of Paddy Soil. Environmental Science & amp; Technology, 2021, 55, 14281-14293.  | 10.0 | 48        |
| 42 | Oxidation mechanism of As(III) in the presence of polyphenols: New insights into the reactive oxygen species. Chemical Engineering Journal, 2016, 285, 69-76.  | 12.7 | 47        |
| 43 | Efficient activation of peroxymonosulfate by copper sulfide for diethyl phthalate degradation:<br>Performance, radical generation and mechanism. Science of the Total Environment, 2020, 749, 142387.  | 8.0  | 44        |
| 44 | Review of chemical and electrokinetic remediation of PCBs contaminated soils and sediments.<br>Environmental Sciences: Processes and Impacts, 2016, 18, 1140-1156.   | 3.5  | 42        |
| 45 | The effects of Fe-bearing smectite clays on OH formation and diethyl phthalate degradation with polyphenols and H2O2. Journal of Hazardous Materials, 2018, 357, 483-490.  | 12.4 | 41        |
| 46 | Active iron species driven hydroxyl radicals formation in oxygenation of different paddy soils:<br>Implications to polycyclic aromatic hydrocarbons degradation. Water Research, 2021, 203, 117484.  | 11.3 | 40        |
| 47 | Dry-wet and freeze-thaw aging activate endogenous copper and cadmium in biochar. Journal of<br>Cleaner Production, 2021, 288, 125605.  | 9.3  | 39        |
| 48 | Evaluation of enhanced soil washing process with tea saponin in a peanut oil–water solvent system for the extraction of <scp>PBDEs</scp> / <scp>PCBs</scp> / <scp>PAHs</scp> and heavy metals from an electronic waste site followed by vetiver grass phytoremediation. Journal of Chemical Technology and Biotechnology, 2015, 90, 2027-2035. | 3.2  | 37        |
| 49 | Effects of clay minerals on diethyl phthalate degradation in Fenton reactions. Chemosphere, 2016, 165, 52-58.  | 8.2  | 37        |
| 50 | Sustainability of in situ remediation of Cu- and Cd-contaminated soils with one-time application of amendments in Guixi, China. Journal of Soils and Sediments, 2016, 16, 1498-1508.   | 3.0  | 36        |
| 51 | Pyrogenic Carbon Initiated the Generation of Hydroxyl Radicals from the Oxidation of Sulfide.<br>Environmental Science & Technology, 2021, 55, 6001-6011.  | 10.0 | 36        |
| 52 | A novel sulfite coupling electro-fenton reactions with ferrous sulfide cathode for anthracene degradation. Chemical Engineering Journal, 2020, 400, 125945.  | 12.7 | 35        |
| 53 | Activation of inorganic peroxides with magnetic graphene for the removal of antibiotics from wastewater. Environmental Science: Nano, 2021, 8, 960-977.  | 4.3  | 34        |
| 54 | Effects of iron (hydr)oxides on the degradation of diethyl phthalate ester in heterogeneous<br>(photo)-Fenton reactions. Journal of Environmental Sciences, 2019, 80, 5-13.  | 6.1  | 33        |

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|----|--|------|-----------|
| 55 | Cotransformation of Carbon Dots and Contaminant under Light in Aqueous Solutions: A Mechanistic<br>Study. Environmental Science & Technology, 2019, 53, 6235-6244.   | 10.0 | 33        |
| 56 | An N,S-Anchored Single-Atom Catalyst Derived from Domestic Waste for Environmental Remediation.<br>ACS ES&T Engineering, 2021, 1, 1460-1469.   | 7.6  | 33        |
| 57 | Photochemical characterization of paddy water during rice cultivation: Formation of reactive intermediates for As(III) oxidation. Water Research, 2021, 206, 117721.   | 11.3 | 33        |
| 58 | Evidence for the generation of reactive oxygen species from hydroquinone and benzoquinone: Roles in arsenite oxidation. Chemosphere, 2016, 150, 71-78.   | 8.2  | 32        |
| 59 | Biochar decreased the bioavailability of Zn to rice and wheat grains: Insights from microscopic to macroscopic scales. Science of the Total Environment, 2018, 621, 160-167.   | 8.0  | 32        |
| 60 | Cu2O@β-cyclodextrin as a synergistic catalyst for hydroxyl radical generation and molecular recognitive destruction of aromatic pollutants at neutral pH. Journal of Hazardous Materials, 2018, 357, 109-118.  | 12.4 | 30        |
| 61 | Fate of As(III) and As(V) during Microbial Reduction of Arsenic-Bearing Ferrihydrite Facilitated by Activated Carbon. ACS Earth and Space Chemistry, 2018, 2, 878-887.   | 2.7  | 30        |
| 62 | Remediation of polychlorinated biphenyl-contaminated soil by soil washing and subsequent TiO2 photocatalytic degradation. Journal of Soils and Sediments, 2012, 12, 1371-1379.   | 3.0  | 27        |
| 63 | Persistent Free Radicals from Low-Molecular-Weight Organic Compounds Enhance Cross-Coupling<br>Reactions and Toxicity of Anthracene on Amorphous Silica Surfaces under Light. Environmental<br>Science & Technology, 2021, 55, 3716-3726.                              | 10.0 | 27        |
| 64 | Transformation of tetracyclines induced by Fe(III)-bearing smectite clays under anoxic dark conditions. Water Research, 2019, 165, 114997.   | 11.3 | 26        |
| 65 | Rapid DDTs degradation by thermally activated persulfate in soil under aerobic and anaerobic conditions: Reductive radicals vs. oxidative radicals. Journal of Hazardous Materials, 2021, 402, 123557.   | 12.4 | 25        |
| 66 | Electrokinetic delivery of anodic in situ generated active chlorine to remediate diesel-contaminated sand. Chemical Engineering Journal, 2018, 337, 499-505.   | 12.7 | 24        |
| 67 | The formation of •OH with Fe-bearing smectite clays and low-molecular-weight thiols: Implication of As(III) removal. Water Research, 2020, 174, 115631.  | 11.3 | 24        |
| 68 | Efficient transformation of diethyl phthalate using calcium peroxide activated by pyrite.<br>Chemosphere, 2020, 253, 126662.   | 8.2  | 23        |
| 69 | In situ stabilization of the adsorbed Co2+ and Ni2+ in rice straw biochar based on LDH and its reutilization in the activation of peroxymonosulfate. Journal of Hazardous Materials, 2021, 416, 126215.  | 12.4 | 23        |
| 70 | Facile ball milling preparation of sulfur-doped carbon as peroxymonosulfate activator for efficient removal of organic pollutants. Journal of Environmental Chemical Engineering, 2021, 9, 106536.   | 6.7  | 22        |
| 71 | Enhanced soil washing process for the remediation of PBDEs/Pb/Cd-contaminated electronic waste site with carboxymethyl chitosan in a sunflower oil–water solvent system and microbial augmentation. Environmental Science and Pollution Research, 2015, 22, 2687-2698. | 5.3  | 21        |
| 72 | Highly effective removal of BPA with boron-doped graphene shell wrapped FeS2 nanoparticles in<br>electro-Fenton process: Performance and mechanism. Separation and Purification Technology, 2021,<br>267, 118680.  | 7.9  | 20        |

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|----|---|------|-----------|
| 73 | Advances of single-atom catalysts for applications in persulfate-based advanced oxidation technologies. Current Opinion in Chemical Engineering, 2021, 34, 100757.  | 7.8  | 20        |
| 74 | The mechanism of 2-chlorobiphenyl oxidative degradation by nanoscale zero-valent iron in the presence of dissolved oxygen. Environmental Science and Pollution Research, 2018, 25, 2265-2272.   | 5.3  | 19        |
| 75 | Mechanistic Study of the Effects of Agricultural Amendments on Photochemical Processes in Paddy<br>Water during Rice Growth. Environmental Science & Technology, 2022, 56, 4221-4230.   | 10.0 | 17        |
| 76 | Efficient chlorinated alkanes degradation in soil by combining alkali hydrolysis with thermally activated persulfate. Journal of Hazardous Materials, 2022, 438, 129571.  | 12.4 | 17        |
| 77 | A novel electrokinetic remediation with in-situ generation of H2O2 for soil PAHs removal. Journal of<br>Hazardous Materials, 2022, 428, 128273.   | 12.4 | 16        |
| 78 | Nano Fe2O3 embedded in montmorillonite with citric acid enhanced photocatalytic activity of nanoparticles towards diethyl phthalate. Journal of Environmental Sciences, 2021, 101, 248-259.   | 6.1  | 14        |
| 79 | Mechanism of significant enhancement of VO2-Fenton-like reactions by oxalic acid for diethyl phthalate degradation. Separation and Purification Technology, 2021, 279, 119671.  | 7.9  | 14        |
| 80 | Weathered Microplastics Induce Silver Nanoparticle Formation. Environmental Science and Technology Letters, 2022, 9, 179-185.   | 8.7  | 14        |
| 81 | Hydroxyl radical formation during oxygen-mediated oxidation of ferrous iron on mineral surface:<br>Dependence on mineral identity. Journal of Hazardous Materials, 2022, 434, 128861.   | 12.4 | 14        |
| 82 | Nano-α-Fe2O3 enhanced photocatalytic degradation of diethyl phthalate ester by citric Acid/UV<br>(300–400†nm): A mechanism study. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 360,<br>78-85.                               | 3.9  | 13        |
| 83 | The overlooked oxidative dissolution of silver sulfide nanoparticles by thermal activation of persulfate: Processes, mechanisms, and influencing factors. Science of the Total Environment, 2021, 760, 144504.                                | 8.0  | 13        |
| 84 | Hydroxylamine promoted hydroxyl radical production and organic contaminants degradation in oxygenation of pyrite. Journal of Hazardous Materials, 2022, 429, 128380.  | 12.4 | 13        |
| 85 | Sorption mechanism of zinc on reed, lignin, and reed- and lignin-derived biochars: kinetics, equilibrium, and spectroscopic studies. Journal of Soils and Sediments, 2018, 18, 2535-2543.   | 3.0  | 11        |
| 86 | Pyridinic- and Pyrrolic Nitrogen in Pyrogenic Carbon Improves Electron Shuttling during Microbial Fe(III) Reduction. ACS Earth and Space Chemistry, 2021, 5, 900-909.   | 2.7  | 11        |
| 87 | Efficient activation of peroxymonosulfate by C <sub>3</sub> N <sub>5</sub> doped with cobalt for organic contaminant degradation. Environmental Science: Nano, 2022, 9, 2534-2547.  | 4.3  | 8         |
| 88 | Measuring the bioavailability of polychlorinated biphenyls to earthworms in soil enriched with<br>biochar or activated carbon using triolein-embedded cellulose acetate membrane. Journal of Soils and<br>Sediments, 2016, 16, 527-536.       | 3.0  | 7         |
| 89 | Oxytetracycline induced the redox of iron and promoted the oxidation of As(III). Science of the Total Environment, 2022, 828, 154381.   | 8.0  | 6         |
| 90 | Foliar application of SiO2 and ZnO nanoparticles affected polycyclic aromatic hydrocarbons uptake of Amaranth (Amaranthus tricolor L.): A metabolomics and typical statistical analysis. Science of the Total Environment, 2022, 833, 155258. | 8.0  | 6         |

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|----|---|------|-----------|
| 91 | Rapid As(III) oxidation mediated by activated carbons: Reactive species vs. direct oxidation. Science of the Total Environment, 2022, 822, 153536.  | 8.0  | 5         |
| 92 | Mechanistic insight into sulfite-enhanced diethyl phthalate degradation by hydrogen atom under UV<br>light. Separation and Purification Technology, 2022, 295, 121310.                                      | 7.9  | 5         |
| 93 | Quantification of the redox properties of microplastics and their effect on arsenite oxidation.<br>Fundamental Research, 2023, 3, 777-785.  | 3.3  | 4         |
| 94 | Response to Comment on "Redox-Active Oxygen-Containing Functional Groups in Activated Carbon<br>Facilitate Microbial Reduction of Ferrihydrite― Environmental Science & Technology, 2018, 52,<br>4487-4488. | 10.0 | 1         |
| 95 | Reactive oxygen species formation in thiols solution mediated by pyrogenic carbon under aerobic conditions. Journal of Hazardous Materials, 2021, 415, 125726.  | 12.4 | 1         |