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New Technologies for Soil and Groundwater Remediation

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Message from the Guest Editors

Advanced oxidation processes (AOPs) are capable of degrading most types of organic contaminants into harmless products through the production of reactive radicals (e.g., HO•, $SO_4^{\bullet-}$, Cl•, etc.), and have gained great attention in in situ chemical oxidation (ISCO). Effective activation methods, such as transition metals, semiconductor metal oxide, and HE activation on H_2O_2 for HO• generation, as well as heat, UV light, and transition metals activation on PS for $SO_4^{\bullet-}$ production, are developing for organic-contaminated soil and groundwater remediation. However, our knowledge of the innovative activation methods, along with the mechanisms behind them, is still limited. Further research is required for proposing more cost-effective advanced oxidation techniques in soil and groundwater remediation.

This research topic aims to explore the dynamics and mechanisms underlying the advanced oxidation processes for removing organic contaminants in soil and groundwater. Studies on advanced oxidation treatment approaches including (but not limited to) persulfate, H_2O_2, and permanganate are welcome in the

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Message from the Editor-in-Chief

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