

Special Issue

Eco-Friendly Innovations for Water Purification: Advanced Oxidation and Sustainable Cleanup Solutions

Message from the Guest Editors

Water contamination remains one of the most pressing environmental challenges of our time, significantly impacting ecosystems, public health, and global economies. The topic of this Special Issue has garnered international attention, as reflected in initiatives like the European Green Deal and the United Nations Sustainable Development Goals, which emphasize reducing environmental pollution, ensuring clean water access, and protecting aquatic ecosystems.

Unfortunately, many aquatic bodies are contaminated by various organics, which cannot be removed via the most commonly applied water treatment techniques. Thus, powerful and eco-friendly alternatives should be developed and employed in the removal of organic pollutants. AOPs are considered sustainable and efficient techniques in the removal of different organics. AOPs are based on the generation of harmless but reactive oxygen species, which attack the present compounds and mineralize them to harmless CO₂, H₂O, and inorganic ions. The most regularly investigated AOPs are the Fenton process, ozone-based AOPs, photocatalysis, plasma-based AOPs, and most innovative ones, EAOPs.

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