# Special Issue

# Technology and Principle of Removing Pollutants in Water

## Message from the Guest Editors

This Special Issue focuses on advanced technologies and fundamental principles for eliminating diverse pollutants (e.g., heavy metals, organic contaminants, and nutrients) from aqueous environments. We particularly emphasize sorbent-based approaches, especially utilizing biochar derived from the pyrolysis and carbonization of solid wastes such as municipal/industrial sludge and other hazardous wastes. Contributions are sought on (1) novel synthesis and functional modification techniques (e.g., chemical activation, doping, or composite formation) to enhance biochar's pollutant removal efficiency and selectivity; (2) investigation of removal mechanisms (adsorption, catalysis, or precipitation) and interfacial processes; (3) performance evaluation for targeted pollutant removal in water/wastewater treatment; (4) resource utilization strategies turning waste into value-added remediation materials; (5) scalability, regeneration, and environmental impact of these technologies. Studies integrating material science, process engineering, and environmental chemistry to advance sustainable water purification are especially welcome.

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## Deadline for manuscript submissions

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# About the Journal

## Message from the Editor-in-Chief

*Toxics* (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

## Editor-in-Chief

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