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Wastewater Treatment for Pollution Mitigation: Latest Advances and Prospects

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Deadline for manuscript submissions:

closed (15 September 2023)

Message from the Guest Editors

This Special Issue will provide an overview of the state-of-the-art, advances, and challenges regarding the role and possibilities of different treatment technologies for water recovery. It will cover the applications, development of new materials, reactor design, and case studies regarding the following techniques: i) physico-chemical processes, including adsorption, ion exchange, membrane processes, phase separation, and multiphase extraction; ii) advanced oxidation/reduction processes, including heterogeneous catalysis, UV/H₂O₂, Fenton oxidation, ozonation, sonolysis, and electrochemical treatment; iii) biological processes, including anaerobic digestion, aerobic process, biofilm process, and membrane bioreactors; iv) process intensification.

The Special Issue will cover the following fields:

- Nanotechnology and nanomaterials;
- Potable and non-potable water reuse;
- Urban hydrology (sewer systems, stormwater management, green infrastructure);
- Drinking water treatment and distribution;
- Monitoring, fate, and assessment of contaminants (chemical, microbial, anthropogenic particles such as microplastics or nanoparticles);
- Resource recovery and residuals management.



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Message from the Editor-in-Chief

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