

## Special Issue

# Advanced Technologies for Water/Wastewater Treatment: Research Progress, Challenges, and Prospects

### Message from the Guest Editors

Due to rapid industrialization, the quality of water has declined drastically. The problems of water contamination have been somewhat addressed using traditional wastewater treatment (WWT) techniques; however, in the case of some persistent contaminants, these traditional WWT methods may not be efficient and thus require improvement. Recently, advanced oxidation/reduction processes have been employed to eliminate/ degrade such persistent contaminants (pesticides, pharmaceuticals, dyes, sunscreen agents, etc.). The current issue is designed to specifically focus on these advanced technologies for water/wastewater treatment, recent progress, current challenges, and future perspectives. The key technologies that define the scope of this issue include but are not limited to:

- Advanced reduction technologies
- CO<sub>2</sub> electrocatalytic reduction
- Heterogenous photocatalysis
- Homogenous photocatalysis
- Gamma irradiation process
- Electrocatalysis
- Photoelectrocatalysis
- Membrane technologies
- Synthetic polymers for effective adsorption/catalysis

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 August 2023)



## Water

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CiteScore 6.0



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### Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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