



water

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Heterogeneous Catalytic Processes and Advanced Nanostructures for Remediation of Contaminated Water

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Message from the Guest Editors

Dear Colleagues,

Heterogeneous photocatalysis is generally applied for treating water and wastewater containing refractory organic contaminants with the purpose of reusing it via achieving complete mineralization of the compounds under mild conditions, such as ambient temperature and pressure. Photocatalysis is a green and energy-efficient protocol that has attracted tremendous attention owing to its potential merits, such as its low cost, nontoxic nature, availability, stability, strong photoactivity activity, and reusability, making it a versatile approach for the effective treatment of wastewater streams. Additionally, nanostructures and advanced nanomaterials are potential candidates for effective treatment and purification of wastewater from hazardous chemicals, dyes, heavy metals, and so on. This Special Issue focuses on the design and development of advanced photocatalytic and nanostructures to remove toxic pollutants from water systems. We welcome both review and experimental papers falling within the scope of this Special Issue.

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Special Issue



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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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