

Special Issue

Solid Waste Management and Its Impacts on Groundwater Quality

Message from the Guest Editors

The aim of this Special Issue is to present recent advances in **modeling approaches**, **innovative engineering solutions**, and **real-world applications** to protect groundwater resources from the impacts of solid waste. We particularly welcome contributions that integrate hydrogeological, geochemical, environmental engineering, and policy perspectives. The scope of this Special Issue includes, but is not limited to, the following topics:

- Groundwater flow and contaminant transport modeling from solid waste disposal sites.
- Simulation of leachate generation and migration in the vadose and saturated zones.
- The design, evaluation, and optimization of techniques to prevent or mitigate groundwater contamination (e.g., liners, covers, leachate collection, bioreactors).
- The assessment and modeling of heavy metals, organic pollutants, and NAPLs in waste-affected sites.

We invite you to contribute research and case studies that enrich the discussion on this topic and provide solutions to environmental protection. **Keywords:** solid waste management; groundwater contamination; leachate migration; numerical modeling; pollution mitigation techniques

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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.

Editor-in-Chief

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