

Special Issue

Emerging and Legacy Contaminants in Soil and Water Systems: Pathways, Monitoring, Characterization, and Treatment

Message from the Guest Editors

This Special Issue assembles research on emerging and legacy contaminants in interconnected soil and water systems. We welcome original articles and reviews in, but not limited to, these areas:

- **Pathways and Transport:** Spatial-temporal distribution and accumulation of contaminants; identification of point and non-point sources; fate and transport processes, including mobility, persistence, and cross-media transfer.
- **Monitoring:** Field-based and real-time detection technologies; use of remote sensing, GIS, UAVs, and GeoAI for mapping hotspots and tracking transport; sensor networks and automated systems for continuous, high-resolution monitoring.
- **Characterization and Analysis:** Target/non-target analyses with advanced tools such as LC-HRMS; studies on contaminant speciation and bioavailability under varying environmental conditions.
- **Treatment and Remediation:** Optimization of conventional and advanced methods (adsorption, membranes, photocatalysis, wetlands, bioreactors); novel materials and engineered systems (functionalized sorbents, nanomaterials, photocatalytic compounds, biosensors) for enhanced detection and removal.

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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

Dr. Jean-Luc PROBST

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