Special Issue

Radionuclide Removal from Contaminated Water: Strategies and Challenges

Message from the Guest Editors

The contamination of water by radionuclides originating from nuclear power plants, agriculture, industry, and nuclear medicine poses a significant threat to the environment and public health. This Special Issue aims to comprehensively explore sustainable, low-carbon, and effective strategies for radionuclide decontamination and resource utilization from water. The specific topics to be addressed include advanced techniques for radionuclide removal and recovery, risk assessments of radioactive contamination sources in aquatic environments, green and efficient strategies for radioactive pollution control, the fate and transport of radionuclides in contaminated water and their impacts, challenges, and future research directions for improving our understanding and remediation strategies of radioactive contamination in the aquatic environment. Additionally, the interaction mechanisms between radionuclides and remediation materials using density functional theory will be explored. For more details, please find at: https://www.mdpi.com/journal/water/special_issues/5932KF5GPF

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Deadline for manuscript submissions

closed (20 May 2025)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/201018

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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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