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Special Issue Reprint

Research Progress in Groundwater Contamination and Treatment

Edited by: Panagiotis Papazotos, Eleni Vasileiou, Eleni Gianni and Simeone Chianese

This Reprint focuses on recent advances in the understanding, monitoring, and remediation of groundwater contamination, a persistent global challenge with significant environmental and public health implications. It highlights research dedicated to identifying contamination sources and pathways, evaluating the behavior and transport of contaminants, and developing sustainable treatment and management strategies.

The Special Issue, “Research Progress in Groundwater Contamination and Treatment”, contains one editorial and eight research articles that collectively explore groundwater quality and treatment across diverse regions worldwide. The studies investigate the occurrence and environmental fate of contaminants, including Potentially Toxic Elements (PTEs), Pharmaceuticals and Personal Care Products (PPCPs), and benzene, toluene, ethylbenzene, and xylene (BTEX). They also address advanced monitoring through geo-environmental indices, classical and multivariate statistical techniques (e.g., Principal Component Analysis and Hierarchical Cluster Analysis), and innovative remediation, such as the synthesis of titanium dioxide/tungsten trioxide (TiO_2/WO_3) photocatalysts for pharmaceutical contaminants. By presenting current findings and technological innovations, this Reprint underscores the importance of safeguarding groundwater resources through effective remediation and management practices.



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