

Special Issue

Groundwater Geochemistry with Applications for Water Resources and Water Quality Problems

Message from the Guest Editor

Groundwater geochemistry stands at the forefront of addressing global water security challenges, intersecting geology, chemistry, and environmental science. This Special Issue aims to advance our understanding of groundwater systems' geochemical processes and their practical applications for water resource management. With global freshwater demand projected to increase by 55% by 2050, sustainable groundwater management is crucial for water security. Understanding geochemical processes is essential for protecting aquifers from contamination, developing effective remediation strategies, and ensuring long-term water supply. Contributors may present case studies, reviews, and innovation development from diverse hydrogeological settings, demonstrating applicative approaches for effectively identifying pollution sources, evaluating groundwater vulnerability, and assessing remediation strategies to improve local and global water resources' availability. In this Special Issue, original research articles and reviews are welcome. Keywords: hydrogeochemistry; aquifer contamination; water-rock interactions; groundwater remediation.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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