

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.

Guest Editor

Dr. Yaakov Anker

1. Associate Professor, The Department of Chemical Engineering, Ariel University, Ariel 40700, Israel
2. Department of Environmental Research, Eastern R&D Center, Ariel University, Ariel 40700, Israel
3. Department of Infrastructure Engineering, The University of Melbourne, Victoria 3010, Australia

Deadline for manuscript submissions

20 November 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/232910

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

appls.c





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)