

## Special Issue

# Climate Change on Geomaterials

### Message from the Guest Editor

Climate change is significantly altering the behavior of geomaterials, impacting their mechanical, hydraulic, and thermal properties, and these changes pose challenges to the stability of infrastructure, to environmental protection, and to engineering design. With the increasing frequency of extreme and compounded climate events, understanding these impacts has become critical to advancing both research and engineering practice. This Special Issue explores the evolving interactions between climate change and geomaterials, including soils, rocks, construction materials, and geosynthetics. It features interdisciplinary research on geomaterial characterization, performance assessment, degradation mechanisms, stabilization, resilience strategies, and predictive modeling under climate-induced stresses. Applications include transportation, energy systems, environmental management, waste containment, coastal protection, and underground infrastructure. This Special Issue aims to support sustainable engineering practices and enhance the resilience of geomaterials in a rapidly changing environment.

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### Guest Editor

Dr. Masrur Mahedi

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### Deadline for manuscript submissions

20 January 2026



## Applied Sciences

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## 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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