Special Issue

Influence of Micro- and Macrostructures on the Behavior and Properties of Geomaterials

Message from the Guest Editors

This issue delves into both classical and emerging perspectives on the micro- and macro-mechanical behaviors of granular materials. Granular materials are ubiquitous in both nature and technology, ranging from sandcastles built on beaches to indispensable computer chips that underpin modern life. In disciplines such as soil mechanics and powder technology, the study of granular materials boasts a long history, with efforts focused on understanding and predicting their complex responses under various loading conditions. Topics of interest include but are not limited to the development and application of novel experimental techniques, the microstructural and micromorphological characterization of geomaterials, the numerical modeling and analysis of fundamental granular behaviors, constitutive modeling of granular materials, data-driven approaches to constitutive modeling, and machine learning-assisted methods in this domain. We look forward to receiving your contributions.

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Deadline for manuscript submissions

20 September 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/233535

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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