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Mechanical and Modeling of Composite Materials

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Message from the Guest Editors

The backfilling mining method can promote the green, low-carbon, circular and sustainable development of traditional mines. Considering that the cemented backfill is a multi-phase composite material composed of tailings, gangue, cementing agent and other materials, it is crucial to accurately understand the mechanical properties and evolutionary laws of the composite backfill material (CBM) to ensure safe production of backfilling mining.

The purpose of this Special Issue is to collect the latest research results on the mechanical properties and numerical modelling of CBM. At the same time, the Special Issue will provide information on the applicability of integrated design methods for mine backfill, as well as on the safety evaluation of mine backfill stability. We kindly invite you to submit original research and review articles.

Keywords

- composite materials
- mechanical properties
- strength properties
- solid waste resource utilization
- cementing agent
- numerical simulation
- dynamic mechanical properties
- damage mechanism

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Message from the Editor-in-Chief

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