

## Special Issue

# Advanced Backfilling Technologies in Coal Mining

### Message from the Guest Editor

The backfilling and mining method is one of the green mining technologies, which shares many technological advantages with others in terms of the management of solid wastes (e.g., gangue, fly ash), strata movement control, and improvement of the recovery ratio.

Meanwhile, many other backfilling methods have also been proposed based on the methodology. Even though the solid backfilling and mining method has been widely used in China, some improvements are still expected; for example, how to increase the backfilling and mining efficiency, control the strata movement precisely, optimize the mixing recipe, and enhance the intelligence level of devices. This Special Issue intends to invite scholars to contribute to the development of solid backfilling and mining technology, with a focus on, but not limited to, the design and upgrading of intelligent equipment, the optimization of mixing recipes with the aim of improving the strength of the backfilling body, the on-site observation of strata movement and surface deformation, and the analysis of typical backfilling and mining engineering cases.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 July 2025)



## Applied Sciences

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### Editor-in-Chief

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