

Special Issue

Thermal Management and Ventilation Optimization for Underground Mining

Message from the Guest Editor

This Special Issue seeks cutting-edge research on integrated strategies for thermal control and ventilation optimization in underground mines. We invite contributions on novel system designs, advanced simulations (CFD, AI-driven models), sustainable cooling technologies, heat mitigation materials, case studies, and regulatory frameworks. Submissions may also address synergistic solutions for air quality control, energy recovery, and automation-enhanced ventilation. While it is focused on mining applications, this issue welcomes interdisciplinary insights from fields such as tunnel engineering, geothermal energy, and restricted-space environmental control.

Guest Editor

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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

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