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## **Mining Safety: Challenges and Prevention of Mine Disasters**

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Deadline for manuscript submissions:

closed (20 June 2023)

## **Message from the Guest Editors**

Preventing mine disasters and improving mine safety performance are important issues for both scientists and enterprises.

Common disasters in coal mines (coal and gas outbursts, gas explosions, roof falls, spontaneous combustion of coal, coal dust explosions, etc.) have emerged around the world. The increasing geostress, gas pressure, and geothermal gradient lead to nonlinear characteristics of the coal and rock mass, showing rheological behaviors. Dynamic disasters will occur more easily and their mechanism will be more complex with the increased depth. Thus, the prevention and control of coal mine disasters become more difficult. Coal mine safety is facing new and more severe challenges.

This Special Issue will be devoted to exploring new perspectives on safety challenges and protective measures encountered in the current coal-mining process. It will focus on the hot issues, latest research results, and future directions of mine disaster prevention and control through numerical simulations, laboratory studies, field applications, and reviews, mainly in the areas of coal and gas outburst mechanisms, roof falls, spontaneous combustion of coal, and other dynamic hazards.











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### **Editor-in-Chief**

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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

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