Special Issue

Environmental Sustainability in Deep Mining: Controlling Dynamic Disasters and Mineral Resource Development

Message from the Guest Editors

As the global demand for mineral resources continues to rise, the mining industry is increasingly compelled to exploit deeper coal reserves, encountering environments marked by extreme geomechanical complexities. Modern deep mining operations face unprecedented challenges characterized by multi-field coupling effects, such as high in situ stresses, enhanced permeability, and intense mechanical disturbances. These conditions present considerable challenges to environmental sustainability in deep mining, making mining and environmental protection work increasingly difficult to manage. The Special Issue aims to provide a platform for researchers and industry experts to exchange technological innovations, fostering collaboration and advancing practices that prioritize safety theory and technology in deep mining operations while promoting the sustainable development of mineral resources. We particularly welcome contributions exploring novel computational approaches for green mining, disaster prevention and control, dust control, carbon sequestration, sustainable development strategies, etc.

Guest Editors

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Deadline for manuscript submissions

31 May 2026

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/233142

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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