Green Low-Carbon Technology for Metalliferous Minerals

Guest Editor:

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Message from the Guest Editor

Metalliferous minerals play a central role in the global economy. Significant challenges will likely emerge if the climate-driven green and low-carbon development transition of metalliferous minerals exploitation is not managed responsibly and sustainably. Prof. Guo of BGRIMM was the first to propose a new development concept for green low-carbon mining, which is vital to promote the development of metalliferous mineral resources shifting from extensive destructive mining to clean and energy-saving mining in future decades.

This Special Issue intends to collect the latest developments in the green low-carbon mining field, written by well-known researchers who have contributed to the innovation of new technologies, process optimization methods, or energy-saving techniques in metalliferous minerals development. Topics addressed may include but are not limited to: Green low-carbon technologies, system and optimization method; Frontiers in mining with backfill; Mine waste and heat management; Geomechanical behavior of mine backfill; Energy-saving techniques in mining; Alternative by product materials for green mining; Green low-carbon development criteria of mining.

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Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between structure, properties, and performance of metallic materials.
fundamentals. Topics include the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, microstructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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