



Green Mining

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Message from the Guest Editors

The mining and metals industry plays a crucial role in global development, especially in today's high-tech world. Green mining has been defined and developed to reduce the environmental impacts associated with mineral processing and extractive metallurgy by adopting new energy-efficient sustainable processing technologies in all stages of the mining life cycle. This new concept of the green mining and metal sectors needs to become more widespread and to be discussed among the industry in order to mitigate any environmental problems and achieve a sustainable future for the field. This Special Issue focuses on such green sustainable metal production. All research and practical works concerning the following pillars of green mining are more than welcome:

- Sustainable hydrometallurgy;
- Solvometallurgy;
- Supercritical fluid metal extraction;
- Valorization of mining and metallurgical residues (waste and byproducts);
- Zero liquid/solid discharge processing;
- Development of environmentally friendly and energy-efficient technologies for metal extraction from natural and secondary resources.





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Message from the Editorial Board

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 processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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