



Technologies for Green and Sustainable Mining

Guest Editor:

Dr. Piotr Celary

Methane and Outburst Hazards
Assessment Laboratory Group,
Central Laboratory for Research
and Measurements, Jastrzębie-
Zdrój, Śląskie, Poland

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Message from the Guest Editor

Mining plays a critical role in the global supply chain, in particular, of rare earth elements and critical minerals, essential for renewable energy technologies, electric vehicles, and modern electronics, without which the process of green transformation cannot take place. Meanwhile, mining as one of the most resource-intensive industries is expected to address this demand in a sustainable manner, requiring the adoption of environmentally sustainable practices, cleaner technologies, and responsible management of resources to reduce environmental impact and resource depletion while maintaining profitability. By focusing on optimizing extraction processes, improving waste management, and implementing efficient recovery methods for byproducts, mining operations can minimize waste and enhance resource efficiency.

The Issue welcomes manuscripts on current and future technologies and strategies for sustainable mining operation, addressing one or more of the following topics: Dry processing technologies; low-carbon processing; net-zero mining; carbon capture and storage; circular economy and waste valorization; waste-to-resource innovations; responsible mineral sourcing.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
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