

Special Issue

Technologies for Green and Sustainable Mining

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.

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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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Message from the Editor-in-Chief

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

Prof. Dr. Marc A. Rosen

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

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