Special Issue

Novel and Emerging Strategies for Sustainable Mine Tailings and Acid Mine Drainage Management

Message from the Guest Editors

Clean and renewable energy technologies are at the forefront of the world's fight against climate change, including the UN-led move towards a low-carbon society. ... Several techniques have been developed to manage mining-related wastes in the last couple of decades, but all of them are unsustainable, especially in the long term. AMD, for example, may persist for several centuries or even a few millennia, so the development of sustainable strategies to manage the various mining waste streams is of vital importance for future generations. This Special Issue will focus on recent advances in sustainable tailings and AMD management, including but not limited to the following topics:

- Fundamental studies on AMD formation;
- Numerical modelling of AMD flow and heavy metal transport;
- Advanced sulfide passivation techniques;
- Tailings encapsulation and geopolymerisation;
- Electrochemical interactions of sulfide minerals in complex systems;
- Innovative recovery or removal of heavy metals from AMD and tailings;
- Tailings and waste rock recycling; and
- Improvements to conventional AMD and tailings management strategies.

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2020)

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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