

Special Issue

Characterization of the Interactions between Cutting Tools and Rocks during Mechanized Tunneling from a Metallurgical and Rock Mechanical Point of View

Message from the Guest Editors

This Special Issue welcomes contributions to this specific topic, including but not limited to, the following areas:

- Fundamentals of rock behaviors, including brittle fracturing and deformation;
- Theoretical analysis of the interactions between cutting tools and rocks;
- Novel experimental methods to model the interaction between cutting tools and rocks;
- Advanced experimental techniques to monitor the failure process;
- Numerical investigations using methods such as the discrete element method, finite element method, etc.

Guest Editors

Dr. Hong-Wei Yang

Prof. Dr. Shaofeng Wang

Dr. Yu Chen

Dr. Yilin Gui

Dr. Yinlin Ji

Deadline for manuscript submissions

closed (31 December 2022)



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

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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

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

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).