

Special Issue

Texture and Microstructural Analysis of Crystalline Solids

Message from the Guest Editor

Microstructure and crystallographic preferred orientation (texture) have been revealed as key features to understand the genesis and evolution of natural and man-made crystalline solids. Non-random spatial distribution of minerals and their orientations in an aggregate commonly result in anisotropy of physical and chemical properties.

Real 3D microstructural information can be obtained with microtomography, which, for instance, improves the understanding of ore genesis and constrains parameters required for mineral or metallurgical processing. Texture and microstructure modeling (e.g. VPSC, FF-VPSC, ELLE, etc.) are quickly evolving to face paramount challenges on polycrystal plasticity. This Special Issue aims to publish review papers on seminal topics (methods and applications), as well as appropriate examples of texture and microstructure analysis of rocks, ore-minerals and biominerals. Papers providing experimental data and modeling to explore texture/microstructure and growth/deformation/recrystallization mechanisms are also welcome.

Guest Editor

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Deadline for manuscript submissions

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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.

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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).