

Special Issue

Texture and Microstructural Analysis of Crystalline Solids, Volume II

Message from the Guest Editor

The research on natural and experimentally deformed rock-forming and ore minerals during the last twenty years has revealed prime information about deformation mechanisms and their operative conditions, which improved our knowledge on geodynamics and the development of natural resources. On other hand, a strong connection exists between texture/microstructure and properties of mineralized tissues in living and fossil organisms. This has been used to explore life evolution and design new materials. The application of advanced quantitative techniques like neutron, X-ray diffraction, and particularly EBSD has become very popular. All these techniques have merged as an extraordinary opportunity to puzzle out microevolution of crystalline aggregates. 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

closed (15 June 2024)



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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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