Special Issue

Luminescence Properties of Minerals: Technological Applications and Modeling

Message from the Guest Editors

In recent years, interest has grown in the field of luminescent materials. The applications of such materials are indeed many and varied: lighting, display (we note in particular the new electroluminescent flat screens and screens for intensifying X-ray images), lasers, optical telecommunications, renewable energy (including photovoltaic), medicine (particularly marking in biological imaging), radiation detection, etc. This list is not exhaustive and shows that this type of luminescent material has a more than significant technological potential. Mineral luminescent materials are considered to be informative tools capable of probing recombination, charge carrier transport, and defect migration. Devoting a Special Issue to the luminescence of mineral materials therefore seems relevant. This Special Issue will focus on the following issues: characterization, understanding, and origin of luminescence in minerals; control of photoluminescence (e.g., control of emission color); and adaptability to the desired application of luminescent materials. Review contributions as well as original research papers within the topic are welcomed in this Special Issue.

Guest Editors

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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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Journal Rank:

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

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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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