Special Issue

Gemstone Analysis by Spectroscopy and Microscopy

Message from the Guest Editor

Dear colleagues,

Gem materials are typically split into diamonds (colourless and coloured), coloured stones (all other gemstones) and organic materials such as pearls, amber and coral. Gemstone analysis involves a range of tasks including identification, treatment detection, country of origin detection, the determination of colour-causing mechanisms, the analysis of impurities and defects, plus the analysis of the growth mechanisms responsible for the specific physical characteristics of gem materials.

This Special Issue focusses on the spectroscopic and microscopic analysis of gemstones. Papers are welcome that cover new analytical results obtained from testing gem materials by spectroscopy and/or microscopy. Such results may include—amongst others—the characterization of specific gem materials, defect characterization of gemstones, the characterization and identification of gem treatments, and the application of new or little-exploited spectroscopic or microscopic analytical techniques. Submitted papers may cover any type of gem material, including natural, synthetic and artificial gemstones, untreated and treated.

Guest Editor

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Deadline for manuscript submissions

closed (2 July 2021)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/51837

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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).

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