

Special Issue

Gemstone Analysis by Spectroscopy and Microscopy, Volume II

Message from the Guest Editor

The analysis of gemstones used to be a task mostly performed on basic optical instruments such as refractometers by gemmologists. This has changed significantly over the past several decades, and gem testing has become a highly sophisticated field of science that combines mineralogy, geology, chemistry, and physics. This Special Issue focusses on the spectroscopic and microscopic analysis of gemstones, including all types of spectroscopic and microscopic techniques used in the characterisation of gem materials. Papers are welcome that cover new analytical results obtained from testing gem materials by spectroscopy and/or microscopy, including new or little-exploited methods. 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 (15 May 2023)



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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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