



## Gemstone Analysis by Spectroscopy and Microscopy

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (2 July 2021)**

### 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.

Dr. Thomas Hainschwang  
Guest Editor





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## Editor-in-Chief

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## 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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