Special Issue

Gem Characterisation

Message from the Guest Editors

The purpose of this Special Issue is to present the advances in gem characterisation using principally non-destructive means. The proper identification of gems is an ever-increasing challenge, especially with harder-to-detect treatments and new demands on geographical origin determination. In order to grow, gemmology requires valuable input from other fields of science, and more fundamental studies on gems—even theoretical ones—are welcome, as long as they help increase our understanding of gem characteristics. Thus, we welcome contributions from all fields of optical spectroscopy, adequate chemical (micro)analysis techniques, relevant microscopies and non-destructive structural probes. Contributions can range from the detection of simulants and synthetics, to revealing any treatment of current interest, as well as any topics which provide a better understanding of gem formation and scientific determination of geographical/geologic origin. The combination of classical gemmology with laboratory techniques to reach a diagnosis is also of particular interest.

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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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