Special Issue

Mineralogy and Geochemistry of Gems

Message from the Guest Editors

Gems have been used in the manufacture of jewelry and as ornaments since antiquity. Recent statistics have shown that about 15 billion Euros are annually at stake. The purpose of this Special Issue is to present recent advances on the study of various types of gems based on different aspects of research (e.g., geology, trace element geochemistry, inclusion studies, geochronology, spectroscopy, archeogemology), which can be used to constrain the conditions of their formation. A combination of non- and micro-destructive methods, such as UV-Vis-NIR spectroscopy, FTIR spectroscopy, Raman diffusion spectroscopy, EDXRF, LA-ICP-MS, micro-CT and others, may provide valuable information regarding the exact formation, appearance (e.g., color) and treatment of gem materials. This Special Issue will emphasize on the recent advances in both fundamental and applied studies on gems, as well as the application of mineralogical and geochemical methods to their exploration, provenance and treatment identification from previously known or from new localities worldwide.

Guest Editors

Prof. Dr. Panagiotis Voudouris

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Deadline for manuscript submissions

closed (31 December 2018)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/11404

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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.

Editor-in-Chief

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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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