



Colours in Minerals and Rocks

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Message from the Guest Editors

Dear Colleagues,

Colour appears as a result of the interaction between light and matter and is one of the most eye-catching properties of some minerals and rocks. Colours of rocks are basically associated to concentration of colour-bearing minerals. A wavelength-dependable absorption coefficient is responsible for colours in minerals and this depends both on their chemical composition and crystallographic structure. For allochromatic minerals, trace impurities or structural defects can determine the colour.

Colour, pleochroism and interference colour are fundamental properties observable using a petrographic microscope. There are also a number of techniques specifically aimed at colour characterisation and related properties, including colorimetry, UV-VIS spectroscopy or multispectral photogrammetry.

In this special issue we propose to group papers that focus on colour in minerals and rocks in a wide variety of contexts, e.g. gems, pigments for paints, pigments in ceramics, decorated glazes, stained glasses, decorative building stones, mosaics, colourful rock formations, as well as fundamental studies on rare colour varieties of minerals and on chromatic effects.





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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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