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Petrology, Geochemistry, Geophysics, Modeling and Mapping of Volcanic/Igneous Reservoirs and Analog Volcanoes

Guest Editors:

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Deadline for manuscript submissions:
30 April 2025

Message from the Guest Editors

Dear Colleagues,

Igneous reservoirs are widely distributed globally and have been attractive targets for oil and gas exploration, especially in the deep successions of sedimentary basins. Igneous rocks including volcanic and intrusive ones commonly show significant differences in their reservoir characteristics. Special methods and techniques are needed in igneous reservoir delineation and exploration concerning petrological, geochemical and geophysical investigations.

Description of buried volcanoes can be well constrained by multiple borehole and seismic data in many cases in petroliferous sedimentary basins. On the other hand, volcanoes modern and ancient exposed on the ground can be viewed in three dimensions. Volcanology study on the volcanoes related to petroliferous basins has proved to be an effective approach to igneous reservoir exploration.

The Special Issue is organized into three sections:

- **Section 1:** volcanology of outcropping and buried volcanoes;
- **Section 2:** petrology, geochemistry, and geophysics of volcanic/igneous reservoirs;
- **Section 3:**volcanostratigraphy, modelling, and mapping.

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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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