

Special Issue

The Significance of Fluid Inclusion in the Study of Hydrocarbon Migration

Message from the Guest Editors

Fluid inclusions, which constitute unique and direct evidence for ancient fluid migration events, are key to understanding the filling history of porous and fractured hydrocarbon reservoirs. Recently, several detailed reviews have been published that consider direct and indirect analytical techniques for the determination of PVTX (pressure–volume–temperature–composition) properties of hydrocarbon migration, including the temporal and genetic constraints of the fluid.

Furthermore, data obtained from fluid inclusions can be further evaluated in terms of the pore cementation or structural evolution of certain areas and used to construct detailed basin models. For this Special Issue, we are inviting papers involving a complex approach and interpretation of hydrocarbon migration. Studies on cement minerals, which frequently host fluid inclusions of hydrocarbon migration events but have very little representation in the scientific literature on long-standing methods and approaches, are also welcome in this Special Issue.

- petroleum inclusion
- paleofluid migration
- cementation history
- water–rock interaction
- basin modeling

Guest Editors

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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.

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