

Special Issue

Geochemical Characterization of Source Rocks in Oil and Gas Fields

Message from the Guest Editors

Petroleum source rocks are often fine-grained. Organic-rich sediments that are capable of generating and expelling oil and/or gas in commercial quantities. The aim of hydrocarbon exploration is to achieve the highest production in lowest time span. Evaluation of the source rock potentiality of the organic matter quantity, quality and maturity is crucial for petroleum exploration and development strategies. These parameters are often dependent on both initial depositional conditions of the source rocks as well as secondary processes.

Identification of the source rock properties not only has economic merits but is also paramount for understanding the basin evolution. Geochemical data (Rock-Eval pyrolysis and biomarkers) is widely for the evaluation of the source rock characteristics and its capability to generate hydrocarbons. Correlation between hydrocarbon and source rock characteristics is effective way to understand the hydrocarbon evolution and thus will enhance the predictability of oil and gas accumulations. This topic aims at enhancing our understanding the long-standing issues about the factors controlling the potentiality of oil and gas source rocks.

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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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