



Geochemistry and Geochronology of Organic-rich Sediments and Hydrocarbons

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Message from the Guest Editor

The geochemistry of organic-rich sediments (e.g., black shales) may provide important information about temporal changes in ocean chemistry, including past climatic, evolutionary, and geodynamic events in the Earth's history. The whole rock major and trace element geochemistry of shales has been used to determine provenance and redox depositional conditions during sedimentation. Various redox-sensitive and bio-essential trace metals can become enriched in black shales as a function of the nature of the environment in which they were deposited. Of particular interest are shales with high metal enrichment, as they may represent an important geochemical flux. In addition to archiving paleo-ocean and climatic conditions, black shales offer important economic targets for hydrocarbon and mineral exploration. In this volume, we invite contributions focused on studies of geochemistry and geochronology of hydrocarbons and organic-rich sediments.





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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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