

Special Issue

The Relationship between Metal Deposits and Hydrocarbon Accumulation

Message from the Guest Editor

It is common that many hydrocarbon reservoirs coexist with low-temperature hydrothermal metal deposits in petroliferous basin. Bitumen and petroleum liquids are a common constituent of many low-temperature hydrothermal mineral deposits such as Mississippi Valley-type Pb-Zn deposit, Carlin type Au deposits, disseminated sandstone-hosted U deposit, and stone-hosted Pb and Cu (-V-Co) deposits. The crude oil and oilfield brine in many reservoirs are particularly rich in certain metallogenic elements, such as Au, Ag, As, Sb, Hg, Cu, Pb, Zn, Ni, and V. The close coexistence or interdependence relationship between low-temperature hydrothermal deposits and hydrocarbon reservoirs in space and the material composition suggested a close genetic relationship between metal mineralization and hydrocarbon accumulation.

Guest Editor

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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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