Special Issue

Geofluid–Rock Interactions and Petroleum Accumulation in Sedimentary Basins

Message from the Guest Editors

Overall, 20% and 49% of oil and gas resources are stored in deeply buried layers in global sedimentary basins. In the last ten years, great success has been achieved in the exploration and development of the deeply buried hydrocarbons; thus, the deeply buried layers in sedimentary basins are attracting attention from geologists, particularly petroleum geologists.

This Special Issue, which aims to improve our fundamental understanding of HTHP geofluids and geofluid–rock interactions, attempts to present up-to-date advances in this area. New progress on the evolution of deeply buried diagenetic systems, the occurrence states, sources and evolution of organic-inorganic geofluids, the transport of diagenetic materials, the genesis of hydrocarbon–water–rock interactions in HTHP conditions, and the genesis of deeply buried high-quality oil/gas reservoirs are welcome. The submission of the latest research on deeply buried geological cases and physical/numerical simulation experiments is also encouraged.

Guest Editors

Prof. Dr. Guanghui Yuan
Prof. Dr. Yingchang Cao
Dr. Jinjun Xu

Deadline for manuscript submissions

closed (31 December 2023)

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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.

Editor-in-Chief

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