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Hydrocarbon Generation and Accumulation in Unconventional Shale Reservoir: Up-to-Date Advances in Theory, Experiment, Method and Application

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Deadline for manuscript submissions:
closed (21 October 2022)

Message from the Guest Editors

Over the past three decades, great advances in drilling and completion technologies (e.g., horizontal drilling coupled with large-scale, multistage hydraulic stimulation) have significantly promoted the cost-effective production of hydrocarbon (natural gas and crude oil) from low-permeability shale formations in the many countries (e.g., the USA, Canada, and China). The large volume of natural gas and liquid oil within the shale rocks has been the focus of hydrocarbon exploration and development in many petroliferous basins, which has also transformed the global energy outlook. However, there are still many scientific issues implicating the efficient extraction and sustainable development of these unconventional resources, including hydrocarbon generation, storage and accumulation in shale reservoir. Therefore, *Minerals* would like to announce a Special Issue on hydrocarbon generation and accumulation in unconventional shale reservoirs, and invites contributions to present up-to-date advances in relevant theory, experiments, and methods, as well as their successful applications in the exploration of these unconventional resources. Original research and review articles are welcome.

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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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