

Special Issue

The Exploration and Development of Unconventional (Mainly Shale) Hydrocarbon Resources

Message from the Guest Editors

This special issue will mainly focus on the underlying scientific issues that are related to the accumulation and depletion of hydrocarbon mechanisms in shale reservoirs, in an attempt to improve our fundamental understanding of these processes for the high single-well productivity and low-cost sustainable development of hydrocarbon. **Keywords**

- genesis and evolution of gas/oil and multiscale pores
- genetic and distribution patterns of fractures
- geological controls on reservoirs quality
- hydrocarbon accumulation/depletion mechanisms
- petrophysical characterization of formations
- fluid flow and fluid–shale interactions
- diagenesis analysis and simulation
- digital rock physics

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Deadline for manuscript submissions

closed (20 September 2023)



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