Special Issue

Shale Oil and Gas Production Technologies: Analysis, Modeling and Application

Message from the Guest Editor

As one of the most important unconventional oil and gas resources, shale oil and gas have gained more and more attention, especially in North America and China. Shale oil and gas are geo-resources stored in shale formations, mainly in the form of adsorption and free states. Shales develop nanoscale pore–throat systems and have diverse pore morphologies. Therefore, the storage and flow of oil and gas in nanoscale pores are different from conventional reservoirs, which are significantly affected by the nano-confinement effect, making them more difficult to exploit. At present, the controlling effect of shale pore–throat microstructures on the storage and flow of shale oil and gas is not clearly understood, constituting a hot issue in current shale oil and gas production. Thus, it is important to collect the latest analysis, modeling and application research on this subject. Works pertaining to shale oil and gas storage and flow research, including shale microstructure characterization, shale oil and gas adsorption/desorption evaluation, shale oil and gas mobility evaluation and enhanced oil and gas recovery are of particular interest for this Special Issue.

Guest Editor

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