

Special Issue

Advanced Nano-Materials for Oil and Natural Gas Exploration

Message from the Guest Editor

Unprecedented rapid globalization has accelerated the need for petroleum and gas, and it has become more difficult to recover enough oil and gas without advanced petroleum and gas exploration technology. Low- to medium-maturity shale oil is a promising alternative energy, and in situ conversion methods using catalysts or high-temperature fluids have been proved to be particularly promising measures; therefore, novel nanomaterials are urgently needed. Drilling causes serious formation damage when suitable pretreatment is not employed. To maintain stable oil and gas production, efficient formation protection measures must be taken, and novel technology and agents in this area are crucial safeguards.

Guest Editor

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