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Latest Research Progress for Nanotech for Oil and Gas

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Message from the Guest Editors

Dear Colleague,

Owing to horizontal drilling and hydraulic fracturing, unconventional oil/gas resources, including coal bed methane (CBM), tight oil/gas and shale oil/gas, have become an indispensable part of global energy. However, due to the existence of abundant nanopores in coal, tight sandstone and shale, the flow behavior and storage characteristics of these unconventional oil/gas resources are strongly affected by nano-confinement, and an accurate estimation and/or prediction of the unconventional resources still faces numerous challenges. Therefore, studies on nano-scale mechanisms of gas/liquid flow and phase behavior in these unconventional reservoirs will contribute to resource evaluation, reservoir productivity, production forecast and optimization.

Deadline for manuscript
submissions:

closed (30 June 2019)



mdpi.com/si/16050

Special Issue



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Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

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