Special Issue

Latest Research Progress for Nanotech for Oil and Gas

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.

Guest Editors

Dr. Jing Li

Dr. Jinze Xu

Prof. Dr. Zhangxing John Chen

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

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