Special Issue

Shale Oil and Shale Gas Resources

Message from the Guest Editors

The relatively short production span observed in unconventional reservoirs demands novel solutions for optimizing drilling, completion, and improved recovery efficiencies. On the other hand, the consolidation and analysis of multiple sources of data are becoming key enablers for the discovery of strong production drivers and building predictive models for complex rock–fluid interactions on fractured media. This issue will seek to ignite contrasting perspectives towards optimal shale play management. Potential topics of interest include, but are not limited to:

- Advances in shale reservoir characterization techniques and workflows;
- Analysis of physical-chemical interactions of shale rocks with drilling, injected, or in-situ fluids;
- Novel technologies to address the complex challenges in the modeling and simulation of hydrocarbon production from shale formations;
- Geomechanical aspects and impacts on shale reservoirs;
- Novel methods for enhanced hydrocarbon recovery in shale reservoirs;
- Machine learning and data science applications for unlocking new insights in shale resources exploitation.

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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.

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