Special Issue

Advanced Petroleum and Nature Gas Exploration Technology

Message from the Guest Editors

Low-to medium-maturity shale oil is a promising alternative energy, and the in situ conversion method by the catalyst or high-temperature fluid has been proven to be one of the most promising measures. For the drilling industry, the deep and ultradeep reservoirs have become one of the most important targets to increase oil and gas production; however, the agents or drilling fluid used in conventional drilling is not suitable for the harsh conditions of the deep and ultradeep reservoirs, so novel nanomaterials and high-performance drilling fluid for the deep and ultradeep reservoirs are urgently needed. This Special Issue aims to present and disseminate the most recent advances related to the synthesis, application, and mechanism of novel materials and technology for the petroleum industry. Topics of interest for publication include, but are not limited to, the following:

- Synthesis and application of nanomaterials for the petroleum industry;
- Drilling fluid and key agents;
- Novel technology for formation protection;
- Wettability alternation;
- Mechanism of the flow behavior of fluids in porous media.

Guest Editors

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Message from the Editor-in-Chief

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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