Special Issue

Petroleum Engineering in Oil and Gas Production: Advances in Theory and Operation

Message from the Guest Editors

Despite the increasing interest in renewable energy, oil and gas remain the predominant energy sources that spur economic growth. Along with escalating energy demand, the rapid decline in conventional oil and gas reservoirs introduces additional challenges to oil and gas supplies. Over the past decade, significant research progress has been made, with the intention of stimulating oil and its production from unconventional reservoirs that either have undesirable properties or harsh conditions. Research papers in this Special Issue focus on recent advances in the basic theory and field practice of oil and gas production from (1) reservoirs that present unsatisfactory properties, such as tight rocks and extreme reservoir heterogeneity with fractures; (2) reservoirs that possess challenging conditions, including high temperature, high salinity, high oil viscosity and deep water. Review papers focusing on state-of-the-art prospectives that provide enlightening guidelines to the oil and gas production community will also be considered.

Guest Editors

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Dr. Kun Xie

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Deadline for manuscript submissions

closed (20 September 2023)

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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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