Special Issue

Oil and Gas Reservoirs: Phase Behavior, Seepage Mechanism, Productivity Prediction, and Novel Modelling Methods

Message from the Guest Editors

We are pleased to invite you to submit papers to this new Special Issue of *Energies*, entirely devoted to "Oil and Gas Reservoirs: Phase Behavior, Seepage Mechanism, Productivity Prediction, and Novel Modeling Methods". This Special Issue puts emphasis on the current challenges faced in the description of phase behavior and multiphase flow in matrix pores of the mentioned oil and gas reservoirs. Potential topics of interest include, but are not limited to, the following:

- Characterization of nanopore morphology in shale/coal samples;
- Fluid phase behavior in abnormal high-pressure and high-temperature reservoirs;
- Fluid phase behavior in nanopores of shale condensate gas reservoirs;
- Original multiphase fluid occurrence state in deep oil/gas reservoirs;
- Pore network modeling towards fluid flow in porous media;
- Novel numerical simulation method upon complex development modes;
- Fracture propagation characterization and long-term conductivity calculation;
- Advanced production data analysis methods based on multiphase flow.

Guest Editors

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Deadline for manuscript submissions

closed (11 October 2024)

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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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