Special Issue

Advances in Hydraulic Fracturing and Reservoir Characterization

Message from the Guest Editors

This Special Issue will provide an opportunity for researchers to share their original research and review articles based on recent advancements in reservoir characterization, geomechanics, hydraulic fracturing, and different frac-fluids' application in unconventional oil and gas reservoirs. Potential topics include but are not limited to the following topics:

- Unconventional oil and gas reservoir damage process, fracture propagation characteristics, and novel fracturing method-related rock mechanics;
- The coupled geomechanics and fluid flow with the transport of proppants;
- The interaction of natural fractures and hydraulic fractures;
- The enhancement of well productivity using novel completion strategies and wellbore integrity;
- The evaluation of energies or foamed or waterless frac fluids;
- The evaluation of unconventional oil and gas reservoirs, reservoir rock characterization, including multiscale pore structure and lamination characteristics;
- The conventional and unconventional petroleum reservoirs characterization;
- The application of artificial intelligence in characterizing reservoir geomechanics and hydraulic fracturing.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 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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