Special Issue

Advances of Heavy Oil Recovery Technologies with Low Carbon-Intensity

Message from the Guest Editors

This Special Issue addresses the important role of these emerging and multidisciplinary technologies to achieve cost-effective heavy oil recovery with low carbon intensity. The Issue covers reviews, experimental and modelling research, and case studies related to heavy oil recovery technologies. All aspects related to new developments and challenges in this research area are welcomed. Topics include but are not limited to:

- Innovative methods in heat management to reduce surface and downhole heat requirement as well as heat loss.
- Smart wells and well configurations (e.g., using FCD/ICD) to improve steam conformance.
- Hybrid or solvent-based processes to massively reduce steam.
- Downhole electrical and electromagnetic heating.
- Synthetic use of solar and wind power in steam generation.
- Carbon capture, utilization and storage, particularly CO2 and methane.
- Recovery by downhole chemical reactions.
- Cold recovery methods.
- Other experiments, simulations and field tests related to heavy oil recovery.

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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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