



Advances of Heavy Oil Recovery Technologies with Low Carbon-Intensity

Guest Editors:

Dr. Yongbin Wu

Dr. Jinze Xu

Prof. Dr. Pengcheng Liu

Dr. Xiaofei Sun

Dr. Hong He

Dr. Min Yang

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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:

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





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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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