

## Special Issue

# Process Technologies for Heavy Oils and Residua Upgradings

### Message from the Guest Editors

A great deal of research has been conducted in recent years that aims to improve the thermal efficiency and reduce the water requirements and environmental impacts of heavy oil recovery processes. To develop more energy-effective recovery technologies, solvent- and NCG-aided processes, in situ upgrading and gasification, in situ generation of hydrogen and solvents, downhole steam generation and EM heating, etc., have been explored, to give some examples. This Special Issue is dedicated to studies on innovation and advancements in thermal recovery methods, mainly focused on, but not limited to, the following aspects:

- Mechanisms of thermal enhanced recovery processes;
- Cutting-edge hybrid methods;
- Thermal methods applied in special types of reservoirs;
- Follow-up and alternative recovery technologies;
- Downhole heating and steam generation;
- In situ upgrading and gasification of heavy oil;
- Field cases for enhancement of thermal recovery methods.

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### Guest Editors

Prof. Dr. Qi Jiang  
Dr. Xiang Zhou  
Dr. Siyuan Huang

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### Deadline for manuscript submissions

closed (1 June 2024)



## Processes

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