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Polymer Applications for Enhanced Oil Recovery: Challenges and Opportunities

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Message from the Guest Editor

Polymer flooding is one of the promising and wellestablished chemical enhanced oil recovery (CEOR) methods to improve oil sweep efficiency. This can be achieved through both mobility and conformance controls. Recent studies showed that polymers are even capable of improving microscopic displacement efficiency as well. Polymer applications have been mainly focused on sandstone reservoirs with mild conditions of reservoir heterogeneity, salinity, and temperature.

In this Special Issue, we aim to collect reasonable and comprehensive findings regarding polymer enhanced oil recovery applications for both mobility control, as well as conformance control. The targeted applications are focused in sandstones and carbonates from experimental, numerical, and field works. The content of this collection will cover diverse fields of synthetic polymers vs. biopolymers, associative polymers, polymers under harsh reservoir conditions, polymer gels, polymer viscoelastic effects, novel polymers, low-salinity polymer, hybrid techniques, and others.



Specialsue





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Message from the Editor-in-Chief

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