Special Issue

Polymer Applications for Enhanced Oil Recovery: Challenges and Opportunities

Message from the Guest Editor

Polymer flooding is one of the promising and well-established 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.

Guest Editor

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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