Special Issue

Application of Polymers for Chemical Enhanced Oil Recovery

Message from the Guest Editors

Dear Colleagues, The commercial success of polymer flooding in China, Canada, and India in both light and heavy oil reservoirs showed the amazing potential of polymers for enhanced oil recovery (EOR). Polymers can be used to displace very viscous oils, even in low-permeability reservoirs. Meanwhile, great advances have been made in affordable surfactants to promote surfactant EOR. The combination of surfactants and polymers enables attractive surfactant-polymer (SP) flooding because of the reduced mobility ratio and increased capillary number. Traditionally, alkalis were added to help reduce the retention of expensive surfactants, but now this effect may be unnecessary. SP flooding can compete with Alkali-surfactant-polymer (ASP) flooding. Another promising technology was nanofluids EOR which was less understood. The Spring of chemical EOR is finally coming. This Special Issue welcomes all chemical EOR studies for both light and heavy oil reservoirs, as well as conventional and unconventional reservoirs. The following topics can be covered by submitted papers: polymer flooding; SP flooding; ASP flooding; alkali-polymer flooding; nanofluid EOR; emulsion flooding.

Guest Editors

Dr. Hu Guo

Dr. Zhengbo Wang

Prof. Dr. Kaoping Song

Deadline for manuscript submissions

closed (15 February 2024)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/154136

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

About the Journal

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 4.9.

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

Prof. Dr. Alexander Böker
Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

MDPI