

Special Issue

Polymer Science in Petroleum Engineering: Latest Trends and Developments

Message from the Guest Editor

This Special Issue, titled "Polymer Science in Petroleum Engineering: Latest Trends and Developments", will explore the pivotal role of polymer science in enhancing various aspects of petroleum engineering. As the oil and gas industry faces increasing challenges such as resource depletion, environmental concerns, and the need for improved efficiency, innovative polymer-based solutions are emerging as key contributors to sustainable practices. This Special Issue will highlight recent advancements in polymer applications, including enhanced oil recovery (EOR) techniques, drilling fluids, demulsifiers, lubricants, viscosity reduction, water shutoff, conformance control, reservoir characterization, and the development of smart materials that respond to subsurface conditions. This Special Issue will gather original articles and reviews showing the latest trends, challenges, and opportunities regarding the integration of polymer science into petroleum engineering to define the future of energy production.

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

Prof. Dr. Alexander Böker

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