

Special Issue

Flow Mechanisms and Enhanced Oil Recovery

Message from the Guest Editors

The Special Issue will highlight experimental and numerical studies, focusing on optimizing recovery methods and understanding the intricate flow dynamics in complex reservoir environments. Authors are invited to share their work on the characterization of reservoir systems, designing and implementing EOR strategies, and integrating state-of-the-art technologies in field applications. Modeling and simulation of fluid dynamics and EOR processes will also play a central role in this issue, offering valuable insights into optimizing field operations. Topics include, but are not limited to:

- Multiphase flow mechanisms in porous media;
- Enhanced oil recovery techniques (gas injection, chemical flooding, and thermal methods);
- Reservoir heterogeneity and its influence on flow and recovery;
- Simulation and modeling of oil and gas flow in complex reservoirs;
- Water-alternating-gas (WAG) and its optimization;
- Field applications and case studies of successful EOR implementation;
- Interaction between fluids and formation rocks under EOR processes.

Guest Editors

Dr. Lei Li

Dr. Hailong Zhao

Dr. Long Xu

Deadline for manuscript submissions

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

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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