Special Issue

Advanced Enhanced Oil Recovery Techniques for Unconventional Oil Resources

Message from the Guest Editor

Unconventional oil resources refer to oil produced using techniques other than those used in conventional production. The powerful combination of horizontal drilling and hydraulic fracturing enables significantly more production from those resources. However, because of the ultra-low permeability and rapid depletion of pore pressure near the hydraulic fractures and wellbore, oil production for most wells declines sharply. It is estimated that the hydrocarbon recovery from these wells is going to be low, typically less than 10%. This Collection is dedicated to the latest research on IOR/EOR for unconventional oil reservoirs. We also welcome submissions on numerical simulations, especially the impact of nanopore confinement and geomechanics coupling on different EOR methods optimization and forecast. To embrace rapidly evolving solutions and strategies to unconventional reservoir management problems, this timely collection also aims to take a snapshot of current advances in the development of a life-of-field surveillance plan and effective conformance control strategies.

Guest Editor

Dr. Abdelazim Abbas

Department of Energy and Petroleum Technology, Faculty of Science and Technology, University of Stavanger, P.O. Box 8600, 4036 Stavanger, Norway

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

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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