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Investigation of Mechanisms Responsible for Enhanced Oil Recovery

Guest Editor:

Dr. Jan Vinogradov

School of Engineering, King's
College, University of Aberdeen,
Aberdeen AB24 3UE, UK

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Message from the Guest Editor

Dear Colleagues,

Increasing global demand for energy sources promotes extensive research into enhanced oil recovery (EOR) methods. The main challenge in applying different EOR methods has always been associated with limited understanding of the underlying mechanisms responsible for improved oil recovery. Experimental data obtained from coreflooding tests on clastic and carbonate rocks are scarce and the results are sometimes inconsistent and even contradicting. On the other hand, numerical simulations performed on length scales ranging from nanometers to kilometers and employing pore network, molecular dynamic and conventional reservoir simulation methods still encounter challenges related to upscaling procedures, inconsistent description of rock properties across different scales, and eventually lack the ability to accurately describe and predict gains from applied EOR methods.

The Special Issue inviting papers on recent advancements in EOR methods. The Special Issue welcomes papers reporting experimental studies on multiple scales as well as numerical and theoretical works that focus on explaining the complex underlying mechanisms of well-established and novel EOR methods.



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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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