

## Special Issue

# Modeling Multiphase Flow and Reactive Transport in Porous Media 2024

### Message from the Guest Editors

This Special Issue is to include comprehensive review papers and recent experimental, theoretical, and numerical results, related to the study of complexities in describing multiphase flow dynamics and transport in porous media across a wide range of spatial and temporal scales, including uncertainty analysis and risk assessment of operations. In particular, topics of interest include but are not limited to:

- Multiphase flow in porous and fractured reservoirs;
- Geochemistry and reactive transport;
- Pore-scale processes;
- Constitutive relations;
- Enhanced oil/gas recovery;
- Upscaling flow and transport parameters;
- Coupled hydraulic, thermal, mechanical, chemical, and biological processes;
- Advanced modeling framework and methods.

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### Guest Editors

Dr. Reza Soltanian

Dr. Marwan Fahs

Prof. Zhenxue Dai

Dr. Jesús Carrera

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### Deadline for manuscript submissions

closed (31 December 2024)



## Energies

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

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