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Modeling Multiphase Flow and Reactive Transport in Porous Media 2023

Guest Editors:

Prof. Dr. Reza Soltanian

Dr. Marwan Fahs

Prof. Dr. Hussein Hoteit

Prof. Zhenxue Dai

Dr. Jesús Carrera

Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

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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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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