

Special Issue

Modeling and Numerical Simulations in Petroleum Engineering

Message from the Guest Editors

Modeling and numerical simulation are widely used in petroleum engineering for oil and gas exploration and production. The Special Issue “Modeling and Numerical Simulations in Petroleum Engineering” will address the most recent advances in modeling and numerical simulations methods and techniques in petroleum engineering. Submissions should discuss the use of modelling and numerical simulations in petroleum industry. Potential topics include but are not limited to the following:

- drilling and completions simulation
- multi-phase wellbore flow simulation
- multiphase, multicomponent flow in porous media
- modelling and simulation of hydraulic fracture
- flow simulation inside artificial lift systems
- flow assurance analysis and modeling
- numerical simulation of unconventional oil and gas reservoirs

Guest Editors

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Deadline for manuscript submissions

closed (10 December 2022)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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