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Recent Advances in Reservoir Simulation

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Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue seeks to contribute to disseminating recent developments in the field of reservoir simulation from a developer's perspective, with the aim of documenting a scientific vision of how a reservoir simulator is likely to look a decade from now. Particular attention will be focused on mathematical formulations and computational physics, advanced discretization, gridding, multiscale simulation, subsurface energy storage modeling, high-performance computing, AI/ML integration, and nonlinear solvers with applications to the broad geo-energy domain including hydrocarbon exploration and production, CO₂ sequestration, underground H₂ storage, and geothermal exploitation. I invite the leading groups in reservoir simulation to contribute to ensure that their perspective on current challenges, advancements, and future developments in reservoir simulation is reflected in this Special Issue.

I look forward to your submissions!



mdpi.com/si/122058

Special Issue



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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.

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Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

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