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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, CO<sub>2</sub> sequestration, underground H<sub>2</sub> 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!



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**Special** Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

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