

Special Issue

Advances in Reservoir Simulation

Message from the Guest Editors

With the in-depth development of unconventional oil and gas resources, such as shale gas, tight oil and shale oil, reservoir simulation has been widely and deeply used in the integrated development model of geology and engineering. Reservoir conditions of deep formations are complex and changeable, and traditional simulation methods face many limitations. Various mechanical methods have been introduced into reservoir simulation, and new technologies such as big data and artificial intelligence have been introduced into the reservoir modeling, which jointly promote the vigorous development of reservoir simulation. This Special Issue welcomes the latest original research results of reservoir modeling and numerical analysis. The research objects include, but are not limited to, shale gas, coalbed methane, tight sandstone gas, shale oil, tight oil and carbonate reservoir, which can be a fracturing simulation or long-term production simulation. The purpose of this Special Issue is to create a highland for academic publication and achievement display of reservoir simulation.

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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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