

Special Issue

Petroleum Engineering: Reservoir Fracturing Technology and Numerical Simulation

Message from the Guest Editors

This Special Issue on “Petroleum Engineering: Reservoir Fracturing Technology and Numerical Simulation” will collect research articles and comprehensive reviews focused on the aforementioned topics. Topics include, but are not limited to:

- Rock mechanics research of hydraulic fracturing, including the simulation of geomechanical parameters, the rock mechanical response of oil and gas reservoir fracturing, and the optimization of fracture parameters.
- Research on the development mode of reservoirs after fracturing, including the flow simulation of complex fracture networks and the optimization of production parameters after fracturing.
- Research of fracturing materials, including low-friction and low-damage fracturing fluids, new temporary plugging agents, and new proppant materials.
- Research of hydraulic fracturing methods, including unconventional reservoir volume fracturing theory, manual control technology, strong dynamic load impact induced volume reconstruction technology, and acid fracturing technology.
- Innovative research and products in hydraulic fracturing equipment, such as new bridge plugs, packers, fracturing string, and fracturing vehicles.

Guest Editors

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