

Special Issue

Enhancing Oil and Gas Recovery: Experimental Study, Numerical Simulation and Deep Machine Learning

Message from the Guest Editors

Enhanced Oil/Gas Recovery (EOR/EGR) represents a critical aspect of petroleum engineering, as it aims to maximize the extraction of hydrocarbons from existing reservoirs. Due to the continuous growth in energy demand, the development of efficient and effective EOR technologies is becoming increasingly crucial. Conventional methods, while effective, often face limitations in terms of their cost, environmental impact, and recovery efficiency. This is where the integration of numerical simulation and deep machine learning offers transformative potential. Building upon the success of the first edition, the second edition of this Special Issue continues to present and disseminate the latest advancements in the application of numerical simulation and deep machine learning to EOR. We invite researchers and practitioners to contribute findings, methodologies, and case studies that demonstrate the potential and challenges of integrating these technologies into EOR practices.

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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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