

Special Issue

Emerging Trends in Oil and Gas Reservoir Technology

Message from the Guest Editor

The global energy landscape is undergoing a profound transformation, driven by the dual imperatives of meeting energy demand and advancing the energy transition. As the global energy sector evolves, the role of innovative reservoir technology has never been more critical. This Special Issue showcases pioneering research in reservoir characterization, management, and recovery. Key areas of interest include: advancement in reservoir characterization; digital transformation using AI and advanced data analytics; enhanced recovery techniques such as chemical EOR or gas flooding; sustainable reservoir management integrating CCUS, geothermal coproduction, and lifecycle assessment; advanced drilling and completions; and reservoir surveillance using fiber-optic sensing, 4D seismic, and digital twins. This Special Issue provides a platform for academics and industry professionals to share research enhancing recovery, improving efficiency, and supporting a sustainable energy future.

Guest Editor

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Deadline for manuscript submissions

31 July 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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