Special Issue

Advanced Technologies for the Exploration of Conventional and Unconventional Oil and Gas

Message from the Guest Editors

This Special Issue, "Advanced Technologies for the Exploration of Conventional and Unconventional Oil and Gas", aims to showcase cutting-edge research and practical applications that advance the understanding and utilization of oil and gas resources. Topics include, but are not limited to, the following:

- Exploration and development of conventional oil and gas reservoirs (e.g., structural traps, stratigraphic reservoirs);
- Unconventional resource characterization (shale oil/gas, coalbed methane, tight oil/gas);
- Reservoir formation mechanisms and evaluation methods;
- Petroleum engineering and multiphase flow in porous media;
- Intelligent logging and well testing techniques;
- Al and machine learning in reservoir modeling, production prediction, and risk assessment;
- Drilling engineering innovations (automated rigs, directional drilling, low-damage fracturing);
- Oil and gas big data platforms and digital twins;
- Smart agents for real-time reservoir monitoring and optimization;
- Pipeline transportation and storage technologies for high-efficiency resource utilization;
- Environmental protection and low-carbon technologies in exploration and production.

Guest Editors

Prof. Dr. Qiang Yu

Dr. Hexin Huang

Dr. Kai Qi

Dr. Jie Hu

Dr. Yugi Wu



Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/253367

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

mdpi.com/journal/ processes





Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))

