

## Special Issue

# Innovations in Hydraulic Fracturing Technology for Unconventional Reservoirs

### Message from the Guest Editors

This Special Issue, titled “Innovations in Hydraulic Fracturing Technology for Unconventional Reservoirs”, aims to cover the recent advances in hydraulic fracturing technology in unconventional reservoirs. Topics of interest include, but are not limited to, the following areas:

- New theories, models, and numerical simulation methods for hydraulic fracturing;
- Innovative fracturing method and technology in low-permeability oil and gas reservoir (tight oil and gas, shale oil and gas, etc.), coalbed methane, natural gas hydrate, geothermal, etc.;
- Cross-layer fracturing in laminated reservoirs;
- Carbonate reservoir acid fracturing;
- Ultra-deep high-temperature high-pressure reservoir fracturing;
- CO<sub>2</sub> fracturing and CCUS technology;
- Novel fracturing materials (fracturing fluid, proppant, etc.) and tools;
- Non-aqueous fracturing technology;
- Hydraulic fracturing assisted by artificial intelligence, internet of things, and big data;
- Monitoring and evaluation of hydraulic fracturing (fiber-optic cables, etc.);
- Environmental risks and seismic reduction.

### Guest Editors

Dr. Xiaoguang Wu

Dr. Xianwei Dai

Dr. Xu Zhang

### Deadline for manuscript submissions

closed (30 July 2024)



## Processes

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/195632](https://mdpi.com/si/195632)

*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

[mdpi.com/journal/  
processes](https://mdpi.com/journal/processes)





# Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/journal/  
processes](https://mdpi.com/journal/processes)



## 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))