



*processes*

an Open Access Journal by MDPI



## The Exploration and Development of Unconventional (Mainly Shale) Hydrocarbon Resources

Guest Editors:

**Dr. Guoheng Liu**

**Dr. Jianhua Zhao**

**Dr. Xiaolong Sun**

**Dr. Yuqi Wu**

### Message from the Guest Editors

This special issue will mainly focus on the underlying scientific issues that are related to the accumulation and depletion of hydrocarbon mechanisms in shale reservoirs, in an attempt to improve our fundamental understanding of these processes for the high single-well productivity and low-cost sustainable development of hydrocarbon.

### Keywords

Deadline for manuscript  
submissions:  
**closed (20 September 2023)**

- genesis and evolution of gas/oil and multiscale pores
- genetic and distribution patterns of fractures
- geological controls on reservoirs quality
- hydrocarbon accumulation/depletion mechanisms
- petrophysical characterization of formations
- fluid flow and fluid–shale interactions
- diagenesis analysis and simulation
- digital rock physics



[mdpi.com/si/165893](https://mdpi.com/si/165893)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giancarlo Cravotto**

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

## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

## 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**, **Inspecc**, **AGRIS**, and **other databases**.

**Journal Rank:** JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

## Contact Us

---

Processes Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)