





an Open Access Journal by MDPI

# Process System Engineering of Gas Hydrate: Multiple Processes, **Scales, Physics Fields and Senarios**

Guest Editors:

# Dr. Lanchang Xing

Department of Measurement and Control Technology and Instrumentation, China University of Petroleum (East China), Qingdao 266580, China

# Prof. Dr. Guozhong Wu

School of Ecology, Environment and Resources, Guangdong University of Technology, Guangzhou 510006, China

### Dr. Jinxiu Yang

Unconventional Oil and Gas Research Center, China University of Petroleum (East China), Qingdao 266580, China

Deadline for manuscript submissions:

30 September 2025

Message from the Guest Editors

This Special Issue aims to introduce the most innovative studies covering physical. chemical. geological. geomechanical, environmental, geophysical, economic aspects of gas hydrates and hydrate-bearing sediments. Topics of interest include, but are not limited to, the following:

- The modelling and prediction of dynamic processes hydrate formation. accumulation. decomposition based on numerical simulations, experiments, or field trials;
- Hydrate petro/rock physics studies for reservoir evaluation. such hvdrate saturation. as permeability, etc.;
- The development of techniques for reservoir monitoring during gas production from hydrates:
- The energy recovery process from marine gas hvdrates:
- Greenhouse gas sequestration and storage process by hydrate formation;
- Vertical methane leakage through the sediments and at the seabed:
- Geological controls of high saturation gas hydrate and underneath FGZ;
- Seabed methane seepage due hvdrate dissociation and related environmental effects:
- The gas hydrate flow process in long-distance oilgas transportation pipelines.



mdpi.com/si/207207









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

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.

# **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))

#### **Contact Us**