



## Novel Approaches for Natural Gas Hydrate

Guest Editors:

**Prof. Dr. Yonghai Gao**

School of Petroleum Engineering,  
China University of Petroleum  
(East China), Qingdao, China

**Dr. Litao Chen**

School of Petroleum Engineering,  
China University of Petroleum  
(East China), Qingdao, China

**Dr. Xiaohui Sun**

School of Petroleum Engineering,  
China University of Petroleum  
(East China), Qingdao 266580,  
China

Deadline for manuscript  
submissions:

**closed (10 November 2022)**

### Message from the Guest Editors

As a natural energy resource with huge reserves, natural gas hydrate (NGH) is considered a future alternative energy source. The extraction of natural gas hydrate resources is technically feasible. However, the gas production rate has not reached the threshold of commercial extraction, and the safety of long-term production has not been verified. Therefore, there is an urgent need to develop novel approaches for the efficient extraction of NGH. In addition, the cost for NGH management in conventional oil and gas production is a heavy burden for the industries. It is necessary to develop novel approaches for NGH management.

This Special Issue aims to present and disseminate the most recent advances related to the theory, experiment, modelling, and application of all types of novel approaches for NGH. Topics of interest for publication include, but are not limited to:

- NGH exploration
- NGH drilling
- NGH well completion
- NGH extraction simulation
- NGH management in flow assurance
- Novel technologies based on NGH
- CCS related to NGH
- Fundamentals of NGH





# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Enrico Sciubba

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

## 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)