

## Special Issue

# High Efficiency Processes for Gas Separation & Purification

### Message from the Guest Editors

High Efficiency Processes for Gas Separation & Purification is currently a very important research area. In particular, the separation of CO<sub>2</sub> is gaining a great attention currently. This is due to its releases into the atmosphere creating the climate change and global warming problems. However, the captured carbon dioxide can be used directly in Enhanced Oil Recovery (EOR) techniques for the purpose of sustaining the current production of crude oil, which is a major energy source for many parts of the world. Currently, the project has sequestered for more than 35 million tons of CO<sub>2</sub> since 2000, considered the largest CCUS project in the world.

With a great important and need by the industry, a number of frontier research programs and projects have been developing worldwide. We therefore invite the submission on the disruptive technology development of High Efficiency Processes for Gas Separation & Purification. Technical reports, demonstration assessments, reviews, research articles, and communications in multidisciplinary relevant topics are welcome in this special issue.

---

### Guest Editors

Prof. Dr. Paitoon Tontiwachwuthikul

Prof. Dr. Zhiwu Liang

Dr. Teerawat Sema

---

### Deadline for manuscript submissions

closed (7 June 2022)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 7.3



[mdpi.com/si/89139](https://mdpi.com/si/89139)

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

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





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 7.3



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Control and Optimization)