

Special Issue

CO₂ Utilization Technologies: Advanced Materials Development & Process System Analysis

Message from the Guest Editors

In this special, we aim to collect cutting-edge findings on different CO₂ utilization technologies, both through modelling and experimental analysis. We welcome contributions on CO₂ utilization technologies in the form of research papers and reviews, but not limited to, the following topic areas:

- Catalyst and electrode materials for CO₂ reduction;
- Reaction kinetics and mechanism;
- Electrochemical conversion of CO₂;
- Catalytic thermal conversion of CO₂;
- Reactor design;
- CO₂ mineralization;
- CO₂ for polymers;
- CO₂ for fuels;
- CO₂ activation;
- BECCUS;
- Negative CO₂ emissions;
- Process design, integration, and control;
- Economic evaluation;
- Thermodynamic analysis;
- Environmental impact analysis;
- Molecular simulation;
- Artificial intelligence algorithms and models.

Guest Editors

Dr. Po-Chih Kuo

1. National Institute of Advanced Industrial Science and Technology, Ibaraki 305-8564, Japan
2. Institute of Industrial Science, The University of Tokyo, Tokyo 153-8505, Japan

Dr. Muhammad Aziz

Institute of Industrial Science, The University of Tokyo, Tokyo 153-8505, Japan

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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

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