

## Special Issue

# Recent Advances in Hydrothermal Carbonization, Hydrothermal Liquefaction, and Supercritical Water Gasification

### Message from the Guest Editor

This Special Issue will deal with recent advancements in HTC, HTL, and SCWG. Topics of interest for the publication include, but are not limited to, the following:

- Co-hydrothermal carbonization of mixed wastes, including plastics.
- Hydrothermal liquefaction of wet wastes, including plastics.
- Supercritical water gasification of wet wastes.
- Catalytic hydrothermal treatments.
- Bio-oil upgrading to sustainable aviation fuels and sustainable marine fuels.
- Integration of hydrothermal treatment with existing or emerging processes.
- Hydrothermal process simulation, optimization, and scale-up.
- Valorization of hydrothermal process liquid.
- Nutrient recovery by hydrothermal treatment.
- Carbon sequestration.
- Emerging pollutants including PFAS removal from water by activated char
- Life-cycle analysis.
- Techno-economic assessment.
- Role of hydrothermal treatments on circular bioeconomy.

### Guest Editor

Dr. M. Toufiq Reza

Department of Chemistry and Chemical Engineering, Florida Institute of Technology, Melbourne, FL 32901, USA

### Deadline for manuscript submissions

closed (31 December 2024)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/207069](https://mdpi.com/si/207069)

*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 3.2  
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)