## Special Issue

# Green Solvents and Materials for $CO_2$ Capture

### Message from the Guest Editors

We are pleased to announce the call for papers for this Special Issue, which aims at collecting works showing strategies of scientists working on green solvents and materials for CO2 capture. We welcome original research articles, review articles and case studies exploring novel strategies. The use of fossil fuels as the main primary energy source inevitably leads to an increasing amount of carbon dioxide released into the atmosphere. The increasing concentration of CO2 in the atmosphere is indicated as the main cause of the greenhouse effect on the planet, resulting in climate change. These reasons have motivated the growing efforts in recent years, both by the technical-scientific and policy communities, to control the accumulation of atmospheric CO2, and considerable progress has already been made in CO2 capture, storage and utilization, as evidenced by the new materials proposed since the beginning of the millennium in the literature. In general, the synthesis of most CO2 sorbents may require multiple steps [...] for further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/cleantechnol/special_issues/24302XV02U

### Guest Editors

Dr. Giuseppina Vanga

ENEA—Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Via Anguillarese 301, 00123 Rome, Italy

Dr. Claudia Bassano

ENEA, Italian Agency for New Technologies, Energy and Sustainable Economic Development, Via Anguillarese 301, 00123 Rome, Italy

### Deadline for manuscript submissions

31 October 2025

**Clean Technologies**

an Open Access Journal by MDPI

Impact Factor 4.7
CiteScore 8.3

mdpi.com/si/216800

*Clean Technologies*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cleantechnol@mdpi.com

mdpi.com/journal/cleantechnol

# Clean Technologies

an Open Access Journal by MDPI

Impact Factor 4.7
CiteScore 8.3

mdpi.com/journal/cleantechnol

# About the Journal

## Message from the Editor-in-Chief

*Clean Technologies* (ISSN 2571-8797) is an international, open access journal of novel scientific research on technology development aimed at reducing the environmental impact of human activities. *Clean Technologies* publishes reviews, regular research papers, communications and short notes which show a significant advance in the development of sustainable technology that reduces energy consumption, environmental pollution and/or the use of water and nonrenewable resources. Our aim is to encourage scientists to publish their experimental and theoretical research in detail as open access, serving a trustable base of advance for the scientific community.

## Editor-in-Chief

Prof. Dr. Patricia Luis Alconero
Materials & Process Engineering, UCLouvain, Place Sainte Barbe 2, 1348 Louvain-la-Neuve, Belgium

## Author Benefits

**High Visibility:**

indexed within Scopus, ESCI (Web of Science), Inspec, AGRIS, RePEc, and other databases.

**Journal Rank:**

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Environmental Science (miscellaneous))

**Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 33.7 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the first half of 2025).

MDPI