

Special Issue

CO₂ Capture and Valorization 2.0

Message from the Guest Editors

Tackling climate change is an urgent need that requires technological solutions applicable at a large scale. Contemporary research is advancing fast trying to transform a problem (i.e., CO₂ emissions) into an opportunity to do things better (i.e., CO₂ as a source of carbon). In this Special Issue, articles focusing on CO₂ capture and further valorization are very much welcome, including, in particular, contributions on technologies that have already reached a demo or pilot plant scale. The main objective of this Special Issue is to show an overview of technological options that prove that CO₂ is an available sustainable source of carbon to produce valuable products under realistic conditions that lead to net CO₂ emission reduction. Prof. Dr. Patricia Luis

Guest Editors

Prof. Dr. Patricia Luis Alconero

Materials & Process Engineering, UCLouvain, Place Sainte Barbe 2,
1348 Louvain-la-Neuve, Belgium

Dr. Daria Nikolaeva

Louvain School of Engineering, Institute of Mechanics, Materials and
Civil Engineering, Université catholique de Louvain, Place Sainte Barbe
2, 1348 Louvain-la-Neuve, Belgium

Deadline for manuscript submissions

closed (30 April 2022)



C

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.4



mdpi.com/si/78595

C

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

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





C

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.4



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Craig E. Banks
Faculty of Science and Engineering, Manchester Metropolitan
University, Chester Street, Manchester M1 5GD, UK

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, CAPlus /
SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 24.3 days after
submission; acceptance to publication is undertaken in 3.9
days (median values for papers published in this journal in
the first half of 2025).