



Advances in Carbon Capture and Utilization

Guest Editors:

Dr. Linda Ansonė-Bertina

Department of Environmental Science, Faculty of Geographical and Earth Sciences, University of Latvia, Raina bulv. 19, LV 1586 Riga, Latvia

Prof. Dr. Maris Klavins

The Natural Resource Research Centre of the University of Latvia, House of Nature, LV 1004 Riga, Latvia

Deadline for manuscript submissions:
closed (15 January 2024)

Message from the Guest Editors

Excessive carbon dioxide (CO₂) emissions are of global concern as they are among the main contributors to climate change, and global trends of CO₂ emissions show annual growth, which is then naturally followed by an annual increase in the average temperature. The most sustainable strategies to limit these CO₂ emissions are carbon capture and storage (CCS) and, where possible, subsequent CO₂ utilization. So far, various CO₂ binding solutions and a wide range of materials have been proposed in the scientific literature, but effective, environmentally friendly, economically viable, and feasible technologies and materials are still being sought.

This Special Issue on “Advances in Carbon Capture and Utilization” aims to present and disseminate advances related to the most recent technologies, materials, understanding, and application possibilities regarding challenges related to carbon capture and utilization.

Topics of interest for publication include but are not limited to:

- Studies on carbon dioxide capture and sequestration;
- Studies on carbon dioxide utilization;
- Materials for carbon capture.





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Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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