

Special Issue

Green Solvents and Materials for CO₂ 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

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Deadline for manuscript submissions

closed (20 May 2026)



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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.

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