Special Issue

Catalytic Processes for CO₂ Utilization

Message from the Guest Editors

The Special Issue "Catalytic Processes for CO2 Utilization" will focus on, but is not limited to, the following topics:

- CO2 as feedstock for the chemical and petrochemical industries;
- CO2 as feedstock for synthetic fuels and Power-to-X;
- progress in the direct catalytic hydrogenation of CO2;
- bio-catalytic, electrochemical, and hybrid conversion processes for CO2;
- reforming processes for the utilization of CO2;
- intensification of catalytic processes for CO2 utilization;
- the role of CO2 in chemical storage of renewable energy;
- CO2 sources: potential, future developments, and conditions for utilization;
- carbon capture as part of CCU process chains;
- integration of CCU in existing industrial production;
- the future role of CCU for the decarbonization of industry; and
- the Life Cycle Assessment (LCA) and Greenhouse Gas (GHG) mitigation potential of CCU process chains.

Guest Editors

Prof. Dr. Markus Lehner

Prof. Dr. Juergen Karl

Prof. Dr. Reinhard Rauch

Deadline for manuscript submissions

closed (10 December 2021)



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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

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