

## Special Issue

# Catalytic Processes for CO<sub>2</sub> Utilization

### Message from the Guest Editors

The Special Issue "[Catalytic Processes for CO<sub>2</sub> Utilization](#)" will focus on, but is not limited to, the following topics:

- CO<sub>2</sub> as feedstock for the chemical and petrochemical industries;
- CO<sub>2</sub> as feedstock for synthetic fuels and Power-to-X;
- progress in the direct catalytic hydrogenation of CO<sub>2</sub>;
- bio-catalytic, electrochemical, and hybrid conversion processes for CO<sub>2</sub>;
- reforming processes for the utilization of CO<sub>2</sub>;
- intensification of catalytic processes for CO<sub>2</sub> utilization;
- the role of CO<sub>2</sub> in chemical storage of renewable energy;
- CO<sub>2</sub> 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.

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### Editor-in-Chief

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