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Catalyst for Hydrogenation of CO₂ to Fuels

Guest Editor:

Prof. Dr. Shyam Kattel

Department of Physics, Florida
A&M University, 1601 S Martin
Luther King Jr Blvd, Tallahassee,
FL 32307, USA

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Message from the Guest Editor

Dear Colleagues,

The global demand for energy is steadily increasing, mainly because of the increasing population. Current energy production is heavily dependent on fossil fuels and emits greenhouse gases. Therefore, CO₂ management is one of the most challenging issues of the current generation.

Various schemes of carbon management have been put forward as ways to tackle this issue. Among them, chemical conversion of CO₂, which is enabled by the use of catalysts, is one of the promising ways to transform CO₂ to fuels and chemicals. Thus, generated fuels and chemicals can be directly used as fuels or feedstocks in existing industrial processes without a need to reinvent the new infrastructures.

This Special Issue, therefore, seeks to contribute to a fundamental understanding of the catalytic hydrogenation of CO₂ to fuels and feedstock chemicals. Topics of interest for publication include but are not limited to the following:

Experimental (ex-situ and in-situ) and theoretical studies of

-Catalytic CO₂ conversion;

-Reactions of CO₂ with molecules;

-Catalyst design for CO₂ conversion and reaction of CO₂ with other molecules.



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Special Issue



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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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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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