



Progress in Catalysis Technology in Clean Energy Utilization

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Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editors

The need to address global challenges such as the overconsumption of fossil fuels, environmental pollution and climate change has become increasingly urgent in recent decades. The world is now in desperate need of more clean and sustainable energy. Catalysis plays an indispensable role in developing clean energy technologies, including water splitting, CO₂ reduction, N₂ fixation, H₂ fuel cells and catalytic abatement of air pollutants such as NO_x, volatile organic compounds (VOCs), soot and CO. Researchers have reported exciting advances in energy and environmentally related catalysis.

This Special Issue seeks contributions on this topic including basic and applied research, modelling and simulation and system analysis studies related to catalysis for clean energy production, conversion and utilizations. Topics of interest include, but are not limited to, the following:

- Catalysis for H₂ production, storage and utilization;
- Catalysis for renewable and clean energy conversions;
- Catalysis for carbon dioxide conversion and N₂ fixation;
- Abatement of air pollutants including NO_x, CO, CO₂, soot and VOCs using catalysis and sorption methods.





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Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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