Special Issue

Advanced Catalysis for Green Fuel Synthesis and Energy Conversion

Message from the Guest Editors

This Special Issue, entitled “Advanced Catalysis for Green Fuel Synthesis and Energy Conversion”, will mainly comprise research on progress that has been made in the state of the art of new nanoscale functional materials and aims to provide an in-depth understanding of advanced catalysis for green fuel synthesis and next-generation energy conversion applications. All studies (experimental and theoretical) within the scope of this Special Issue, including original research and review articles, short communications, and perspective articles, are invited for submission. Topics include but are not limited to the following potential topics:

- Green fuel synthesis;
- Energy conversion reactions;
- Battery and fuel cells;
- Photo- and/or electrocatalysis;
- New materials for catalytic applications;
- Characterization techniques for studying the catalyst;
- CO2, CH4, and biomass conversion;
- Hydrogen production.

You are welcome to visit the **website**, submit the **abstract**, and **full paper**. Any questions please feel free to contact the managing editor Angela Xue (angela.xue@mdpi.com). We look forward to receiving the contribution from you!

Guest Editors

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Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

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