

Special Issue

High-Effective Energy Conversion for Sustainable Environment

Message from the Guest Editor

This Special Issue highlights innovations in materials and processes, emphasizing their role in creating resilient and environmentally friendly energy systems. Key areas include heterogeneous catalysis for renewable energy, with an emphasis on materials and processes that support hydrogen evolution, CO₂ conversion, and biofuel production. In addition, we aim to focus on photocatalysis and electrocatalysis, enabling solar-driven and electrochemical reactions to transform energy storage and conversion processes. Challenges, such as cost optimization and scalability, will also be explored. By combining interdisciplinary research and practical solutions, these advances pave the way for a green economy, where energy efficiency and sustainability are central to comprehensive strategies for a carbon-neutral future. Manuscripts that will be prioritized for this Special Issue include research articles and critical reviews that align with its scope.

Guest Editor

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Deadline for manuscript submissions

31 January 2026



Processes

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CiteScore 5.5



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Message from the Editor-in-Chief

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