

Special Issue

Sustainable Energy Technologies for Industrial Decarbonization

Message from the Guest Editors

This Special Issue focuses on the role of sustainable energy technologies in enabling deep decarbonization across various industrial sectors. The aim is to provide a multidisciplinary platform for the dissemination of research that advances the development, integration, and assessment of clean, efficient, and scalable energy solutions for industry. Topics of interest include, but are not limited to, the following:

- Integration of renewable energy sources (e.g., solar, wind, geothermal) in industrial processes;
- Electrification of industrial heating;
- Carbon-neutral fuels, including green hydrogen, ammonia, and synthetic methane;
- Energy efficiency technologies and demand-side management;
- Waste heat recovery and thermal energy storage;
- Carbon capture and utilization (CCU) in industrial applications;
- Digitalization and smart energy systems for real-time control and optimization;
- Life cycle assessment (LCA) and sustainability metrics for energy systems;
- Policy, market design, and financing mechanisms supporting sustainable transitions.

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