

Special Issue

Advances in Decarbonisation Technologies for Industrial Processes

Message from the Guest Editor

This Special Issue will explore emerging technologies for reducing carbon emissions across industrial processes, highlighting innovative solutions such as carbon capture, utilization, and storage (CCUS), hydrogen-based fuel switching, the electrification of heat processes, and the integration of renewable energy sources. The thematic areas also covered include the following: the role of digitalization, including AI and IoT, in optimizing energy use and enabling the real-time monitoring of emissions; waste to energy; waste stream recycling; life cycle assessment of environmental costs and social impacts; safe and sustainable design methodologies; and research, demonstration activities, and others. By presenting a comprehensive overview of technological innovations, policy insights, and practical applications, this Special Issue serves as a valuable resource for stakeholders committed to driving the industrial sector toward a sustainable net-zero future.

Guest Editor

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Message from the Editor-in-Chief

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