

Special Issue

Advances in Decarbonization Processes in Industry

Message from the Guest Editor

This Special Issue, "Advances in Decarbonization Processes in Industry", will gather cutting-edge research and reviews on innovative decarbonization technologies, with an emphasis on their technology readiness levels (TRLs). As well as the assessment of their technological feasibility, the economic viability of these processes will be a critical focus, to ensure their practical applicability in industrial settings. Particular attention will be given to transformative solutions for use in heavy industries, which are major consumers of fossil-based fuels and resources. This Special Issue will examine the potential for significant CO₂ emission reductions within these sectors. The proposed technologies may be integrated into existing industrial processes or, where feasible, partially or fully replace them, provided that they meet both technical and economic requirements. This comprehensive exploration will highlight strategies for decarbonizing resource-intensive industries while addressing the challenges of implementation and scalability.

Guest Editor

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