

Special Issue

Decarbonization of Industry through Green Hydrogen and Power to X Processes

Message from the Guest Editor

This Special Issue comprises selected papers on the decarbonization of industry by using green hydrogen and power to X processes. From a carbon neutral and economic perspective, green hydrogen and synthetic fuels should be targeted at industries that are inaccessible to direct electrification (e.g., cement, glass, paper mills). A suitable approach is to use these fuels in niche markets that cannot decarbonize their processes by renewable electricity, either because CO₂ is naturally produced from the chemical reactions during raw material processing or because the required operating temperatures are much easier to achieve through combustion than through electrification. In that sense, this Special Issue aims to cover a variety of analyses of the integration of green hydrogen and synthetic fuels in different industries as competitive alternatives against renewable electrification. Papers selected for this Special Issue will be subject to a rigorous peer review procedure with the aim of a rapid and wide dissemination of research results, developments and applications.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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