



Decarbonization of Industry through Green Hydrogen and Power to X Processes

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Manuel Bailera
Guest Editor





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