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Carbon-Based Materials for Hydrogen Production, Storage and Conversion

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Message from the Collection Editors

H_2 is considered to be the ideal carbon-free energy carrier for stationary, mobile, and portable applications, in addition to being the most promising alternative to fossil fuel combustion. Nanoporous carbons and novel composites thereof could play a key role in the development of H_2 technologies. Even more attractive and promising carbonaceous materials have emerged in recent years, including 0D , 1D, 2D, and 3D nanostructures and novel nanocomposites. This Special Issue will highlight the implementation of different carbons and composite structures produced in various forms for advanced applications related to H_2 generation, solid-state H_2 storage, and H_2 conversion.

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Topical Collection