Topical Collection

Carbon-Based Materials for Hydrogen Production, Storage and Conversion

Message from the Collection Editors

H2 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 H2 technologies. Even more attractive and promising carbonaceous materials have emerged in recent years, including OD , 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 H2 generation, solid-state H2 storage, and H2 conversion.

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