Special Issue

Hydrides-Based Hydrogen and Heat Storage Materials, Technologies and Applications

Message from the Guest Editor

Solid-state hydrogen storage materials (SSHM) have fascinated researchers all over the world for the last 70 years. For most of the experts in the field, it is obvious that without some new breakthrough it is very unlikely that currently used solid-state materials will solve the hydrogen storage problem for transportation.

Because of the above-mentioned reasons, the current Special Issue is supposed to cover all aspects connected with the synthesis, characterisation, and application of the hydrides-based materials including, especially, but not only, new hydrides-based materials, new technologies for the synthesis of hydrogen storage materials, new characterisation tools and modifications of current techniques, new catalysts for the decomposition and synthesis of hydrides-based materials, practical examples of the application of solid-state hydrogen storage materials, and problems related to measurement techniques and data accuracy in this field.

For More information, you can click the following link: https://www.mdpi.com/journal/materials/special_issues/hydrogen_heat_storage_materials

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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