Special Issue

Hydrides-Based Materials, Technologies, and Applications

Message from the Guest Editor

Solid-state hydrogen storage materials (SSHMs) have fascinated researchers all over the world for the last 70 years. In fact, there has been great progress with regard to hydrogen-containing materials and materials engineering. Together with the great number of studied compounds, new experimental techniques have been developed and improved to allow for the successful synthesis of materials and composites, and for their effective modification with catalytic additives. This progress also involves characterisation techniques, which have become more precise, faster, and more flexible.

The current Special Issue covers all aspects connected with the synthesis, characterisation, and application of hydride-based materials, including especially, but not only, new hydride-based materials, new characterisation tools and modifications of current techniques, new catalysts for the decomposition and synthesis of hydride-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.

It is our pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editor

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Deadline for manuscript submissions

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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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