Special Issue

Recent Advances in Hydrogen Storage Materials

Message from the Guest Editor

Finding safe convenient ways to store hydrogen is perhaps the single most challenging problem facing the hydrogen economy. The ideal hydrogen storage material must have high gravimetric and volumetric hydrogen capacities, thermodynamic properties which allow for hydrogen sorption at moderate temperatures and relatively rapid kinetics. To date, no solid state material has been identified that meets all these criteria. This special issue of "Materials" will be devoted recent advances in all areas of hydrogen storage research including metal hydrides, complex hydrides and carbon based materials. It will provide scientists from around the world with a mechanism for the exchange of ideas and the dissemination of knowledge in this field.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2012)

Materials

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 5.8
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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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