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Recent Advances in Hydrogen Storage Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2012)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Andrew J. Goudy
Guest Editor

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Message from the Editor-in-Chief

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