

Large scale hydrogen storage materials and systems- simulation and design

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The poor thermal conductivity of metal hydrides coupled with large amount of heat required/released during de/hydrogenation reaction makes thermal management essential in hydrogen systems design. Proper design of heat exchangers and inclusion of heat enhancement materials are required in such systems'. The design of such systems is dependent on several parameters some of these are geometrical, some reaction related and some being specific to the materials used. The talk will be towards materials and such metal hydride beds which can be used in scaling up for large scale applications.

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