

Progress and Challenges of a Hydrogen Economy

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In this overview talk, the grand energy challenges are reviewed succinctly and the elements of the hydrogen initiative are reviewed with particular emphasis given to hydrogen storage, the most vexing challenge of the hydrogen initiative. This is followed by a discussion of promising approaches that have been opened up through nanoscience. Examples will be given of recent progress that has been made with special attention given to the promise offered by the nanoworld.