



## Recent developments in state-of-the-art hydrogen energy technologies – Review of hydrogen storage materials

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### ABSTRACT

Hydrogen energy has been assessed as a clean and renewable energy source for future energy demand. For harnessing hydrogen energy to its fullest potential, storage is a key parameter. It is well known that important hydrogen storage characteristics are operating pressure-temperature of hydrogen, hydrogen storage capacity, hydrogen absorption-desorption kinetics and heat transfer in the hydride bed. Each application needs specific properties. Every class of hydrogen storage materials has a different set of hydrogenation characteristics. Hence, it is required to understand the properties of all hydrogen storage materials. The present review is focused on the state-of-the-art hydrogen storage materials including metal hydrides, magnesium-based materials, complex hydride systems, carbonaceous materials, metal organic frameworks, perovskites and materials and processes based on artificial intelligence. In each category of materials' discovery, hydrogen storage mechanism and reaction, crystal structure and recent progress have been discussed in detail. Together with the fundamental synthesis process, latest techniques of material tailoring like nanostructuring, nanoconfinement, catalyzing, alloying and functionalization have also been discussed. Hydrogen energy research has a promising potential to replace fossil fuels from energy uses, especially from automobile sector. In this context, efforts initiated worldwide for clean hydrogen production and its use via fuel cell in vehicles is much awaiting steps towards sustainable energy demand.

**Abbreviations:** IEA, International Energy Agency; CEM, Clean Energy Ministerial; MI, Mission Innovation; MT, Million Tons; IRENA, International Renewable Energy Agency; AEO, Annual Energy Outlook; US-DOE, United States Department of Energy; LCOE, Levelized Cost of Electricity; SMR, Steam Methane Reforming; kWh, Kilo Watt-hour; MOF, Metal Organic Frameworks; PCTO, Fuel Cell Technologies Office; AI, Artificial Intelligence; ML, Machine Learning; SWCNT, Single Wall Carbon Nanotube; MWCNT, Multiwall Carbon Nanotube; ANI, Artificial Narrow Intelligence; AGE, Artificial General Intelligence; HSA, Hydrogen Storage Alloys; IMC, Intermetallic Compounds; Pa, Pascal; MPa, Mega Pascals; Atm, Atmosphere; BCC, Body Centered Cubic; SS, Solid Solution; Ni-MH, Nickel-Metal Hydride; P-C-T (or PCT), Pressure Composition Temperature; Wt% (or wt%), weight percentage; kJ, Kilo Joules; PEM, Proton Exchange Membrane; H<sub>2</sub>/M, Hydrogen to metal ratio; CRMM, Controlled Reactive Mechanical Milling; HRMM, High-Energy Ball Milling; NPs, Nanoparticles; PMMA, Poly(methyl methacrylate); CA, Carbon Aerogels; 2D and 3D, Two and Three Dimension; DFT, Density Functional Theory; RHC, Reactive Hydride Composite; K, Kelvin (Temperature scale); °C (or °C), Degree Celsius (Temperature scale); CC, Covalent Crystals; LOHC, Liquid Organic Hydrogen Carriers; MWCNT, Multiwall Nanotubes; GPa, GigaPascals; TM, Transition Metal; H-H, Hydrogen-Hydrogen; FCEV, Fuel Cell Electric Vehicle.

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# Recent Developments In Hydrogen Technology

**Michael Rajnik**



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