

The book presents the recent achievements in the use of renewable energy sources, chemical processes, biomaterials for the efficient production of hydrogen, its storage and use as a fuel in the FC-based power systems. ...

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Seawater batteries are unique energy storage systems for sustainable renewable energy storage by directly utilizing seawater as a source for converting electrical energy and chemical energy. ...

International Journal of Applied Science and Technology Vol. 5, No. 4; August 2015 114 The influence of different parameters (e.g., water/aluminum mass ratio, fraction of activator, initial ...

Aluminum is a critical material for the energy transition. It is the second most-produced metal by mass after iron and demand for it has been growing globally at an average ...

Aluminum metal readily reacts with water at room temperature, forming aluminum hydroxide and hydrogen. The reactor only requires a small amount of energy to start up, after which the system is a self-sustaining ...

Abstract Aluminum hydride (AlH_3) is a covalently bonded trihydride with a high gravimetric (10.1 wt%) and volumetric (148 kg/m³) hydrogen capacity. AlH_3 decomposes to ...

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