

Title: Borane ammonia portable power supply

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A portable power-pack fueled by ammonia borane (AB) was newly designed to power an unmanned aerial vehicle (UAV).

Determine cost, safety, energy density, and overall feasibility of using ammonia borane in portable power generation applications Develop low-cost, portable systems that can deliver on-demand ...

Here, authors report a Fe Foam with amorphous domains for the ...

Based on this reaction, a portable hydrogen reactor is reported and shown to be capable of on-demand hydrogen generation sufficient to power a proton exchange membrane fuel cell at varying loads ...

1. Introduction urse of several decades, ammonia borane has been extensively investigated as a hydrogen storage material for various applications. There are multiple methods for releasing ...

Our work reveals that the strong intermolecular hydrogen bonding of polyols diminishes uncontrolled dehydrogenation of the ammonia borane-polyol mixture, which can be activated by a ...

An advanced ammonia borane (AB)-based H₂ power-pack is designed to continually drive an unmanned aerial vehicle (UAV) for 57 min using a 200-W e polymer electrolyte membrane fuel cell ...

Based on the work mentioned above, we propose a portable power generation system which uses hydrogen generated via organic acid-promoted hydrolysis of ammonia borane to power a PEMFC.

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