Borane Ammonia Portable Power Supply

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Ammonia borane (AB) based nanocomposites are studied with the aim of developing a promising solid-state hydrogen store that complies with the requirements of a ...

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

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-We polymer ...

This dissertation describes the design and characterization of a lightweight hydrogen reactor coupled to a proton exchange membrane fuel cell for portable power ...

The design of a fuel cell stack is important to achieve optimal output power. This study focuses on the evaluation of a fuel cell system for unmanned aerial vehicles (UAVs).

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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 ...

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 ...

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