

This paper investigates the performance of a hydrogen refueling system that consists of a polymer electrolyte membrane electrolyzer integrated with photovoltaic arrays, and an ...

Electrochemical devices are pivotal in modern technology, enabling efficient applications across diverse sectors, from renewable energy to environmental monitoring and health care. With ...

Environmental Assessment of Electrochemical Energy Storage Device Manufacturing to Identify Drivers for Attaining Goals of Sustainable Materials 4.0 Maryori C. Díaz-Ramírez 1,2,* , Víctor J. Ferreira 1,2, ...

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nickel-metal hydride, and vanadium redox flow. When considering sustainable development, environmental assessments provide valuable information. In this vein, an environmental analysis of ...

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This study explores the feasibility and environmental impact of integrating EC with solar energy, focusing on optimizing system performance and evaluating the lifecycle environmental impacts.

Electrochemical devices are pivotal in modern technology, enabling efficient applications across diverse sectors, from renewable energy to environmental monitoring and health care. With growing demand, ...

Through the use of gram-scale synthesis and comprehensive sustainability and environmental assessments, we present an efficient management of solvents and electrolytes in an electrochemical ...



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