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Title: Liquid flow battery optimization configuration

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Thus, this paper examines the local area network (LAN) of photovoltaic and liquid flow battery joint power generation and proposes the optimal configuration method of liquid flow battery ...

In the first phase, predictive modeling was performed using multilayer perceptron neural networks (MLPNN) optimized by three metaheuristic algorithms: cheetah optimizer ...

Research on liquid cooling channels is equally important, including optimization of the contact surface for reduced the thermal resistance, design of microchannel for enhanced ...

Different design optimization techniques for liquid-cooling BTMS were evaluated.

Maintaining a battery cell at an optimal temperature improves both its performance and lifespan. This study proposes a cold plate equipped with hybrid manifold channels, ...

Yaji et al. [31] introduced a 2D topology optimization method for the flow fields of the VRFB as a maximization problem of the generation rate of vanadium species. Instead of a ...

Structural optimization of air duct configurations is a key measure to enhance the performance of air-cooled systems, and scholars have accumulated extensive experience in ...

Focusing on the challenge of achieving multi-objective equilibrium in cold plate design, as discussed in the previous literature, this paper aims to balance T_{max} , ΔT , m , and ...

In this paper, a new type of liquid-cooled shell structure is proposed. A battery module experimental platform was built according to the optimized structure, and the ...

Using Computational Fluid Dynamics (CFD) simulations in STAR-CCM+, three different flow channel designs were evaluated under uniform heat flux conditions to compare thermal and ...

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