

Liquid-cooled lithium battery

If the temperature of the lithium-ion battery (Li-IB) is inappropriate or the temperature difference is large for a longer period of time, it would cause a series of problems ...

The battery cooling system has been numerically modeled using a finite volume approach and theoretically investigated to analyze the thermal behavior of battery systems. ...

In addition, although the liquid cooling plate improvement measures proposed for the temperature inhomogeneity of the coolant flow direction have been verified in cylindrical ...

This paper has proposed a novel modular liquid-cooled system for batteries and carried out the numerical simulation and experiment to study the effect of coolant flow rate and ...

To ensure optimum working conditions for lithium-ion batteries, a numerical study is carried out for three-dimensional temperature distribution of a battery liquid cooling ...

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