

Research has found that using indices such as the blue-green ratio (BGI), red-green ratio (RGI), near-infrared-to-red ratio (NIR-RI), Floating Algae Index (FAI), and Normalized Difference ...

This article investigates Qatar's sustainability crisis of the high levels of water, electricity and food use. The high levels of consumption have been enabled by Qatar's significant ...

This thesis explores the design of a water cooled lithium ion battery module for use in high power automotive applications such as an FSAE Electric racecar.

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Direct liquid cooling, also known as immersion cooling, is an advanced thermal management method where battery cells are submerged directly into a dielectric coolant to dissipate ...

Liquid-cooled battery packs have been identified as one of the most efficient and cost effective solutions to overcome these issues caused by both low temperatures and high temperatures.

Studies on the influence of volume flow rate of coolant, contact surface area, and the flow direction on the temperature distribution across the battery pack.

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Offer up to 800 V DC power supply to directly connect with the battery system, not needing any power conversion; CE/UL certifications for worldwide operations; high energy efficiency and reliability.

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For EVs, Valeo offers ultra-performing liquid battery coolers for prismatic and cylindrical Li-ion battery packs (China, the U.S. and Europe). Battery energy density increase and fast charging ...

In order for us to develop a water cooling system for battery packs which could be viable in electric vehicles, we also planned to design a battery pack which would be reliable enough to be used for ...

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