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Abstract: Energy management strategy (EMS) has a significant impact on the lithium-ion battery/supercapacitor combined hybrid energy storage systems (HESS) of electric vehicles. ...

In order to improve the efficiency and extend the service life of supercapacitors, this paper proposes a supercapacitor energy management method based on phase-shifted full ...

In conclusion, the hybridization of SC with batteries enhances energy management systems, offering a viable solution for improving the longevity and performance of modern energy ...

Based on a comprehensive review of the latest articles and achievements in the field, as well as some useful previous experiences of ...

By examining emerging trends and recent research, this review provides a comprehensive overview of electrochemical capacitors ...

To solve the above problems, this work provides a data-driven control method to deal with the energy management scheduling problem of HESS: A data-based energy ...

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Based on a comprehensive review of the latest articles and achievements in the field, as well as some useful previous experiences of the authors, this paper provides an overview of the key ...

This study presents an approach to improving the energy efficiency and longevity of batteries in electric

vehicles by integrating super-capacitors (SC) into a parallel hybrid energy ...

Based on a comprehensive review of the latest articles and achievements in the field, as well as some useful previous experiences of the authors, this paper provides an ...

By examining emerging trends and recent research, this review provides a comprehensive overview of electrochemical capacitors as an emerging energy storage system.

Lithium supercapacitor battery management systems (BMS) optimize performance, safety, and lifespan by monitoring voltage, temperature, and current. They balance energy ...

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