



Aug 1, 2024&ensp;&#0183;&ensp;This paper introduces a charging strategy for maximizing the instantaneous efficiency (  $\eta_{max}$  ) of the lithium-ion (Li-ion) ...

Aug 13, 2024&ensp;&#0183;&ensp;In a Battery Management System (BMS), cell balancing plays an essential role in mitigating inconsistencies of state of charge (SoCs) in lithium-ion (Li-ion) cells in a battery ...

May 6, 2025&ensp;&#0183;&ensp;In series and parallel strings connected Lithium-ion (Li-ion) battery modules or packs, it is essential to equalise each Li-ion cell to enhance the power delivery performance ...

Mar 5, 2021&ensp;&#0183;&ensp;Inconsistencies are inevitable in the practical application of battery packs of new energy vehicles, which will reduce the energy utilisation rate and service life and even ...

Jun 19, 2025&ensp;&#0183;&ensp;Therefore, this paper presents a methodology for charging series-reconfigurable Lithium-ion battery packs. To mitigate the negative effects of unregulated temperature ...

Jan 1, 2022&ensp;&#0183;&ensp;This paper studies the impact of battery pack parameter heterogeneity on active balancing methods. Lithium-ion battery packs are often composed of multiple individual cells ...

Oct 4, 2024&ensp;&#0183;&ensp;During fast charging of lithium-ion batteries (LIBs), cell overheating and overvoltage increase safety risks and lead to faster battery deterioration. Moreover, in conventional battery ...

May 25, 2022&ensp;&#0183;&ensp;To reduce the impact of series battery pack inconsistency on energy utilization, an active state of charge (SOC) balancing method ...

Mar 5, 2021&ensp;&#0183;&ensp;Inconsistencies are inevitable in the practical application of battery packs of new energy vehicles, which will reduce the energy ...

May 25, 2022&ensp;&#0183;&ensp;To reduce the impact of series battery pack inconsistency on energy utilization, an active state of charge (SOC) balancing method based on an inductor and capacitor is ...

May 6, 2025&ensp;&#0183;&ensp;In series and parallel strings connected Lithium-ion (Li-ion) battery modules or packs, it is essential to equalise each Li-ion cell to ...

Aug 1, 2024&ensp;&#0183;&ensp;This paper introduces a charging strategy for maximizing the instantaneous efficiency (  $\eta_{max}$  ) of the lithium-ion (Li-ion) battery and the interfacing power ...

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