

Jan 30, 2024&ensp;&#0183;&ensp;This work proposes a multi-domain modelling methodology to support the design of new battery packs for automotive applications. The methodology allows electro-thermal ...

Jun 4, 2023&ensp;&#0183;&ensp;In the past few decades, research on battery pack boxes has mainly focused on functionality, and now there has been research on other aspects of performance, such as ...

Jan 7, 2025&ensp;&#0183;&ensp;This article discusses the changes in battery pack design that impact which cell chemistries can be used in a commercially viable way. An overview is given for future adoption ...

Feb 1, 2024&ensp;&#0183;&ensp;Power Battery as an important part of new energy vehicles, its structural design and technological innovation have always attracted much attention. In recent years, around the ...

Jul 19, 2025&ensp;&#0183;&ensp;Both new energy vehicles and energy storage systems are experiencing rapid growth, driving the demand for advanced battery ...

Oct 1, 2022&ensp;&#0183;&ensp;The box structure of the power battery pack is an important issue to ensure the safe driving of new energy vehicles, which required relatively better vibration resistance, shock ...

Nov 4, 2024&ensp;&#0183;&ensp;Abstract and Figures The development of new energy vehicles, particularly electric vehicles, is robust, with the power battery pack being ...

Nov 4, 2024&ensp;&#0183;&ensp;The development of new energy vehicles, particularly electric vehicles, is robust, with the power battery pack being a core component of the battery system, playing a vital role ...

Jan 24, 2018&ensp;&#0183;&ensp;Lithium-ion Battery pack which is comprised of assembly of battery modules is the main source of power transmission for electric ...

Mar 6, 2023&ensp;&#0183;&ensp;The integration of the battery pack's housing structure and the vehicle floor leads to a sort of sandwich structure that could have ...

Dec 6, 2023&ensp;&#0183;&ensp;In conclusion, thoroughly examining the chassis structure design plan for new energy vehicles is crucial for advancing these ...

Sep 10, 2023&ensp;&#0183;&ensp;In previous studies, many battery pack box structures had large volume and complex structures. By establishing models in virtual prototypes and simulating and analyzing ...

Jun 12, 2024&ensp;&#0183;&ensp;As the market demand for battery pack energy density multiplies

progressively, particularly in the context of new energy pure electric vehicles, where a 10% diminution in ...

Sep 22, 2025&ensp;&#0183;&ensp;Abstract - As core components of new energy vehicles, the anti-collision performance and weight of power battery packs directly affect vehicle safety and driving range. ...

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