

State-of-the-art energy storage devices are capable of delivering reasonably high energy density (lithium ion batteries) or high power density (supercapacitors).

Semantic Scholar profile for Hongsen Li, with 44 highly influential citations and 99 scientific research papers.

A fundamental understanding of ion charge storage mechanisms in nanostructured electrodes is essential to improve the performance of batteries or devices for rechargeable energy storage systems.

Abstract In lithium-ion batteries (LIBs), many promising electrodes that are based on transition metal oxides exhibit anomalously high storage capacities beyond their theoretical values.

Antimony selenide nanorods decorated on reduced graphene oxide with excellent electrochemical properties for Li-ion batteries Journal of the Electrochemical Society

2026 research profile of Hongsen Li, a leading Materials Science researcher. Explore H-index, citation metrics, awards, key publications, and academic impact based on Research data.

Discover our advanced lithium batteries designed for new energy applications. Perfect for solar energy storage, these batteries provide reliable power supply solutions for your home or business.

In summary, Hongsen Li and colleagues have developed a Fe/Li₂O composite that demonstrates high energy density, excellent rate performance, and remarkable cyclic stability as ...

Here, we reveal the role of the electron density of states in inducing extra energy storage well beyond electrochemistry-driven conversion reactions, which represents a step forward for future high-density ...

To enhance the electrochemical performance of silicon electrodes, it is essential to comprehensively understand their underlying lithium storage mechanisms. Unfortunately, the vast diversity of silicon ...

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