

Title: Vienna lithium-ion battery technology

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In this talk a summary of solid-electrolyte development for lithium ion batteries will be given to enable a realistic evaluation of battery performance and future developments in the electric vehicle ...

Our long term goal is gaining a deeper insight into the rates and mechanisms of lithium transfer both at the electrode-electrolyte interface, as well as within the electrode material in order to enable safe ...

Our scientists address the entire development chain, ranging from basic research on material optimisation to sustainable production technology on a semi-industrial scale, sensor technology for ...

This review sheds light on the exciting prospects and potential breakthroughs in lithium-ion battery technology by examining emerging trends in materials, cell designs, manufacturing ...

VIENNA, Austria - A new breakthrough from the Vienna University of Technology -- regenerative oxygen-ion batteries -- may transform the world of energy storage, with the potential to replace ...

BatWoMan focuses on three main technology efforts. Firstly, the development of energy-efficient processes for electrode manufacturing, eliminating volatile organic compounds and preparing highly ...

KILNTECK GmbH, based in Vienna, specializes in developing and manufacturing advanced thermal processing equipment for lithium-ion battery production.

The solid-state battery, on the other hand, doesn't need any liquid electrolytes at all. It is therefore safer, explains Dr. Marcus Jahn, who heads the newly established Competence Center for ...

An AI-based platform and a digital battery dataspace and passport will support these technological improvements. The overall goal of the project is to reduce the production cost and energy ...

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