Berlin electrochemical energy storage HJ Group

Electrochemical energy storage and conversion systems such as electrochemical capacitors, batteries and fuel cells are considered as the most important technologies proposing environmentally friendly ...

Electrochemical Energy Storage focuses on fundamental aspects of novel battery concepts like sulfur cathodes and lithiated silicon anodes. The aim is to understand the fundamental mechanisms that ...

The research group "Electrochemical Energy Storage Materials" focuses on the development and research of alternative electrode materials and electrolyte systems for lithium-based batteries and ...

Researchers at the Federal Institute for Materials Research and Testing (BAM) have developed an innovative approach to make solid-state batteries more powerful and suitable for ...

The Federal Institute for Materials Research and Testing (BAM), the Helmholtz-Zentrum Berlin (HZB), and Humboldt University of Berlin (HU Berlin) have signed a memorandum of ...

As part of the "electrochemical energy storage" topic, Jülich researchers are working on compact and highly efficient battery systems for stationary use and for sustainable electromobility.

Metal oxide nanoparticles and free-standing porous carbon monolith can be synthesized through polymer assisted colloidal approaches. The well-defined nanostructures can be applied as cathode ...

The Helmholtz-Zentrum Berlin HZB focuses on two topics: On the one hand, researchers are investigating materials for energy conversion and storage, such as solar cells, batteries and ...

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