

DOI: 10.1021/acsaem.1c01658 Corpus ID: 238736020; Tailoring Dielectric and Energy Storage Performance of PVDF-Based Relaxor Ferroelectrics with Hydrogen Bonds @article{Zhang2021TailoringDA, title={Tailoring Dielectric and Energy Storage Performance of PVDF-Based Relaxor Ferroelectrics with Hydrogen Bonds}, author={Meirong Zhang and ...

StoRIES: A Unique Ecosystem for Energy Storage Research. The new consortium of institutes of technology, universities, and industrial companies comprises 17 partner institutions and 31 associated partners from 17 countries, who have vast expertise on energy storage technologies (electrochemical, chemical, thermal, mechanical, and ...

The Institute for Applied Materials - Energy Storage Systems at KIT deals with the production of novel materials for energy storage, such as for Li-ion batteries and post-lithium systems, as well as the research in the processes involved in energy storage, the manufacture and testing of electrodes and cells.

The Topic "High-Temperature Thermal Technologies" centers on the provision, storage and utilization of high-temperature heat from the combustion of renewable energy sources, from solar energy or from geothermal sources. To cover the electrical residual load and to provide sustainable heat for industry and households, we aim to exploit load and fuel-flexible gas ...

Finally, CFC-2 has excellent temperature stability and energy storage performance; it can withstand a breakdown strength of 500 MV m⁻¹ even at 100 °C, and its energy storage density (6.35 J cm⁻³ ...

Now, the Center for Electrochemical Energy Storage Ulm & Karlsruhe (CELEST), one of the most ambitious research platforms in this area worldwide, has started operation. It combines application-oriented basic research with close-to-practice development and innovative production technologies. ... More about the KIT Energy Center: .

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The Journal of Energy Storage focusses on all aspects of energy storage, in particular systems integration,



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electric grid integration, modelling and analysis, novel energy storage technologies, sizing and management strategies, business models for operation of storage systems and energy storage ... View full aims & scope \$

On the way towards a CO₂-neutral energy system, storage of large amounts of energy still is an unsolved problem. In the future, Karlsruhe Institute of Technology (KIT), the German Aerospace Center (DLR), and Stuttgart University plan to jointly develop appropriate energy storage systems.

As an energy storage device, polymer-based film capacitors have received more and more attention with the rapid development of electromagnetic ejection, electric vehicles, electronic and electrical systems, renewable energy etc. owing to the unique advantages, such as high charge/discharge rate, high flexibility, and reliable self-healing ...

Much effort has been invested for nearly five decades to identify and develop new polymer capacitor dielectrics for higher than ambient temperature applications. Simultaneous demands of processability, dielectric permittivity, thermal conductivity, and dielectric breakdown strength dictated by increasing high power performance criteria limit the number of available ...

Electrochemical Energy Storage Renewable energies are in need of efficient energy storage and energy conversion systems due to their variability in power output. At the INT we develop novel nanostructured materials for electrochemical energy storage and analyze their performance.

Yipin Lv's 27 research works with 246 citations and 800 reads, including: Interface charge distribution modulation of Au@NiO Core-Shell nanoparticles for efficient oxygen evolution reaction

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The pursuit of polymer dielectrics with elevated energy density frequently results in heightened energy loss, thereby hindering practical applications. To decouple the dependence of the high energy loss on the high energy storage performance, based on theoretical simulations, a bulky polar unit constructed from a fluorine atom substituted phenyl ring (4-FSt) is designed and ...

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Carbon allotropes have contributed to all aspects of people's lives throughout human history. As emerging carbon-based low-dimensional materials, graphyne family members (GYF), represented by graphdiyne, have a wide range potential applications due to their superior physical and chemical properties. In particular, graphdiyne (GDY), as the leader of the ...

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From April 22 to 26, 2024, the researchers will present a model of their energy storage system at the KIT stand at the Energy Solutions (Hall 13, Stand C76) of the Hannover Messe. Worldwide, high-temperature heat storage systems are being developed to supply resource-intensive production companies with heat independently of fluctuating ...

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Photovoltaic modules and energy storage systems at KIT's Energy Lab 2.0 on Campus North. (Photo: Walter Frasch, KIT) The main idea of the LeMoStore project is to flexibly combine different energy storage technologies and to connect battery modules to the power grid via a grid-compatible inverter. For this purpose, Karlsruhe Institute of ...

Establishing a harmonious equilibrium between high energy storage, minimal energy loss, and exceptional processability presents a formidable challenge within the realm of dielectric polymers. To address this challenge, harnessing the characteristics of long-chain side groups to enhance polarity and toughness, as well as the fluorine effect to improve insulation ...

At KIT the focus is placed on high-temperature TES using liquid metals as advanced heat transport fluids. ... Theoretical and experimental studies of dual-media thermal energy storage with liquid metal 2022. 26th International Conference on Concentrating Solar Power and Chemical Energy Systems (SolarPACES 2020), Article no: 160011, AIP ...

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Yipin Cheng. Department of Applied Chemistry, Xi'an Key Laboratory of Sustainable Energy Materials

Chemistry, National Innovation Platform (Center) for Industry-Education Integration of Energy Storage Technology, Engineering Research Center of Energy Storage Materials and Devices of Ministry of Education, School of Chemistry, Xi'an Jiaotong ...

1 Xi'an Key Laboratory of Sustainable Energy Materials Chemistry, Department of Applied Chemistry, School of Chemistry, Xi'an Jiaotong University, Xi'an, Shaanxi, China; 2 Xi'an Jiaotong University Suzhou Academy, Suzhou, Jiangsu, China; As the core unit of energy storage equipment, high voltage pulse capacitor plays an indispensable role in the field of ...

Excellent Dielectric Energy Storage Performance Achieved by Synergistically increasing Permittivity and Breakdown Strength in Poly(vinylidene chloride-vinyl chloride) with Stabilized Conformation. ... 119. Yipin Cheng, Qinglong Ji, Guanxiang Zhang, Xiao Zhang, Zhenxue Liu, Honghong Gong,* and Zhicheng Zhang*. Synergistic Enhancement of ...

Aquifer thermal energy storage systems can largely contribute to climate-friendly heating and cooling of buildings: Heated water is stored in the underground and pumped up, if needed. Researchers of Karlsruhe Institute of Technology (KIT) have now found that low-temperature aquifer thermal energy storage is of great potential in Germany ...

Manipulating fluorine induced bulky dipoles and their strong interaction to achieve high efficiency electric energy storage performance in polymer dielectrics. Author links open overlay panel Yipin Cheng a, Qinglong Ji a, Bofeng Zhu b, Xiao Zhang b, Honghong Gong a, Zhicheng Zhang a. Show more. Add to Mendeley.

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