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Novel functional porous materials design and synthesis, energy storage, advanced battery materials, hydrogen and methane storage, gas purification, toxicants capture and ...

He is a Professor at the Beijing Institute of Technology. He has authored more than 100 journal articles and four monographs. He holds more than 30 patents. His research ...

Novel functional porous materials design and synthesis, energy storage, advanced battery materials, hydrogen and methane storage, gas purification, toxicants capture and sensing.

Digital Twin Enables Rational Design of Ultrahigh-Power Lithium-Ion Batteries (Adv. Energy Mater. 1/2023) Advanced Energy Materials (IF 24.4) Pub Date : 2023-01-06, DOI: ...

Dr. Li's research interests are mainly focused on the synthesis of nanoscale crystals, including the noble-metal-based nanostructures and lead halide perovskite-type nanocrystals for the ...

He is mainly engaged in the research of advanced secondary battery key materials, lightweight hydrogen storage materials and other new energy storage materials, including lithium/sodium ...

Liu's research interests focus on advanced nanofabrication techniques, materials design for Li-ion batteries and beyond, and interfacial control and understanding in energy storage ...

Our strategy for tailoring the interfacial charge transfer appears generalizable and can practically be extended to the next-generation energy storage systems.

Dr. Li's research interests are mainly focused on the synthesis of nanoscale crystals, including the noble-metal-based nanostructures and lead halide perovskite-type nanocrystals for the electrochemical energy conversion and ...

In this review, the main effects of high temperature on the dielectric properties are analyzed and core modification strategies are summarized. The scientific and technological reasons for the...

She is currently a Full Professor and Supervisor of Ph.D. Candidates in Institute of Advanced Materials and

Technology at University of Science and Technology Beijing. She has ...

From July 2014 to present, Department of Environment and Energy, School of Materials, Beijing Institute of Technology, Professor 2011-10 to 2012-05, Senior Visiting Scholar, CSE& ES ...

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He serves as the director of Construction-Tailorable Advanced Functional Materials and Green Applications Beijing Key Laboratory (from 2015). He has published over 50 papers in peer-reviewed journals, including Nature ...

Dr. Ning Li is currently an associate Professor at Beijing Institute of Technology, and a researcher at Beijing Institute of Technology Chongqing Innovation Center. He worked as a postdoc at ...

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Energy Storage & Conversion. ... Zhou, Huihui PhD 15, Senior Engineer and Lead of Advanced Energy Technology; Zhao, Lin MS 14, PhD Candidate at Texas A& M University; Yang, Qiong MS 15; ... Yang, Yilong ...

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() Key Laboratory of Advanced Energy Materials Chemistry, Ministry of Education (Nankai University) ...

The Advanced Institute of Natural Sciences has established 17 scientific research centers including, the Zhuhai Branch of State Key Laboratory of Earth Surface Processes and Resource Ecology; the BNU-HKUST ...

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The Institute of Engineering Thermophysics (IET) originated from the Power Laboratory of the Chinese Academy of Sciences (CAS) founded by Academician WU Chung-hua in 1956. At present, it has developed into a research institute ...

Aqueous batteries are promising devices for electrochemical energy storage because of their high ionic conductivity, safety, low cost, and environmental friendliness.

Lithium-ion batteries are the ideal energy storage device for numerous portable and energy storage applications. Efficient fault diagnosis methods become urgent to address safety risks.

The results show that the fault diagnosis methods of laboratory scenario are more advanced than real-world applications because of the clean and perfect dataset, advanced equipment, and ...

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