



# Peking university rare earth has energy storage business

Even in rare earth research, where he made his name, Xu had a 20 year struggle to establish a national rare earth chemistry lab at Peking University. "The final ...

But when Peking University's energy storage power station starts turning heads in both academia and industry, you know we're onto something big. This isn't your grandpa's battery technology; ...

The rare earth alloy  $Y_2Co_{17-x}Ni_x$  was prepared by a low-cost co-precipitation reduction-diffusion process, and its crystal structure, static magnetic properties, and microscopic morphology were ...

In a groundbreaking study published in the journal "Materials & Design", a team led by Dan Liu from the Department of Physics at Beijing Technology and Business University ...

Peking University, Feb. 23, 2017: An important breakthrough in super-resolution microscopy has been made by Prof. Xi Peng's group in College of Engineering, Peking University, in ...

Peking University Core Journals on Energy Storage: A Gateway to Cutting-Edge Research Ever wondered who's obsessing over Peking University core journals on energy storage? PhD ...

For these systems to achieve individual spin addressability and high energy efficiency, we exploited the electric field as a tool to manipulate the quantum behaviours of the rare-earth ion ...

Enhanced thermal stability and oxygen storage capacity for  $Ce_xZr_{1-x}O_2$  ( $x=0.4-0.6$ ) solid solutions by hydrothermally homogenous doping of trivalent rare earths\_1\_1.pdf (346.34 kB)

ConspectusRare earth interface structure materials (RE-ISM) play a crucial role in the field of inorganic synthesis and provide an effective ...

Oxygen electrocatalysis is of remarkable significance for electrochemical energy storage and conversion technologies, together with fuel cells, metal-air ...

Nation Natural Science Foundation of China [52103353, 22025502, 21975051]; China Postdoctoral Science Foundation [BX2021329, 2021M693261]

National Key Research and Development Program [2016YFB0901600]; National Natural Science Foundation of China [21871008]; Key Research Program of Frontier Chinese Academy of ...



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Rare earth nanomaterials, which feature long-lived intermediate energy levels and intraconfigurational 4f-4f transitions, are promising supporters for photon ...

This Special Issue contains 8 Reviews, 11 Progress Reports and 1 Research News Highlight, which provides a comprehensive overview on the most updated research developments in ...

Peking University National Laboratory of Rare Earth Material Chemistry and Application China Position Principal Investigator March 2007 - December 2014

This research reviews advancements from 2016 to 2024 in rare earth-based nanomaterials, focusing on doping, heterojunctions and composites for energy conversion and ...

The lithium storage capacity of graphite can be significantly promoted by rare earth trihydrides (REH<sub>3</sub>, RE = Y, La, and Gd) through a synergetic mechanism.

Peking University, May 6, 2015: The Chinese Academy of Sciences has lost one of its most renowned, and celebrated, chemist and scholar. Xu Guangxian, the ...

As climate targets tighten, Peking University stands at the forefront of the storage revolution - proving that academic research can power real-world energy transformations.

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National Key R& D Program of China [2021YFA1501101]; National Natural Science Foundation of China [22221001, 21931001, 22271124]; Special Fund Project of Guiding Scientific and ...

Here, we propose rare-earth-ion-doped Ca (OH)<sub>2</sub> materials for thermochemical energy storage at reduced dehydration temperature through extensive DFT computational screening.

This innovation has guided a comprehensive revolution in China's rare earth separation technology and industry, enabling the country to transform from a major rare earth ...

Basic Science Center Program of National Natural Science Foundation of China [51788104]; National Natural Science Foundation of China [52027817, 52002207]; China Postdoctoral ...

The rare earth alloy Y<sub>2</sub>Co<sub>17</sub>-xNi<sub>x</sub> was prepared by a low-cost co-precipitation reduction-diffusion process,



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and its crystal structure, static magnetic ...

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