

Yuan Yang,^a Guangyuan Zheng^b and Yi Cui^{*ac} Large-scale energy storage represents a key challenge for renewable energy and new systems with low cost, high energy density and long ...

Rechargeable batteries show increasing interests in the large-scale energy storage; however, the challenging requirement of low-cost materials with long cycle and calendar life restricts most ...

This work presents research into a new, cost effective battery design based on manganese sulfate and simple carbon electrodes. It's the first of it's kind, and will spur ...

Batteries including lithium-ion, lead-acid, redox-flow and liquid-metal batteries show promise for grid-scale storage, but they are still far from meeting the grid's storage needs such as low cost, ...

Yi Cui Fortinet Founders Professor, Professor of Materials Science and Engineering, of Energy Science and Engineering, of Photon Science, Senior Fellow at Woods, at Precourt and ...

Yi Cui "This project will undertake the grand challenge of electrochemical energy storage in a world dependent on intermittent solar and wind power. We need affordable, grid ...

Large-scale electrochemical energy storage system is critical for the renewable energy and smart grid technologies [1-3]. In particular, rechargeable batteries with low cost, long lifespan, good ...

Electrolytic MnO₂/Zn battery has attracted significant attention for large-scale energy storage due to its advantages of high energy density and low cost.

Nickel-hydrogen batteries for large-scale energy storage [Chemistry] Proceedings of the National Academy of Sciences of the United States of America (IF 9.4) Pub Date : 2018-11-13, DOI: ...

Large-scale energy storage represents a key challenge for renewable energy and new systems with low cost, high energy density and long cycle life are desired. In this article, we develop a ...

Large-scale energy storage is of significance to the integration of renewable energy into electric grid. Despite the dominance of pumped hydroelectricity in the market of ...

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Then, the current understanding of the Mn²⁺/ MnO₂ charge storage mechanism and its potential in

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manganese-based batteries for large-scale energy storage applications is ...

Large-scale energy storage is of significance to the integration of renewable energy into electric grid. Despite the dominance of pumped hydroelectricity in the market of grid energy storage, it ...

To support large regions increasingly dependent on intermittent renewable energy, Stanford scientists are creating advances in fuel cells, hydrogen storage, flow batteries, and traditional ...

We need affordable, grid-scale energy storage that will work dependably for a long time," said Yi Cui, the project's director and Stanford professor at SLAC, in a statement.

Rechargeable batteries offer great opportunities to target low-cost, high-capacity, and highly reliable systems for large-scale energy storage. This work introduces an aqueous nickel ...

This mini review provides an overview of development activities of Ni-H₂ batteries and highlights the recent advances in the application of advanced Ni-H₂ batteries for ...

Wei Chen, Yang Jin, Jie Zhao, Nian Liu, Yi Cui, Nickel-Hydrogen Batteries for Large-Scale Energy Storage, Proceedings of the National Academy of Sciences, U. S. A. 2018, 115 (46), 11694 ...

The topics to be discussed include: materials design to enable high capacity materials: Si and Li metal anodes and S cathodes; materials for low-cost large scale stationary ...

Grid-Scale Energy Storage: Metal-Hydrogen Batteries Yi Cui Director, Precourt Institute for Energy Fortinet Founders Professor Department of Materials Science & Engineering & ...

Article Published: 23 October 2012 A high-rate and long cycle life aqueous electrolyte battery for grid-scale energy storage Mauro Pasta, Colin D. Wessells, Robert A. Huggins & Yi Cui Nature ...

Large-scale energy storage represents a key challenge for renewable energy and new systems with low cost, high energy density and long cycle life are desired.

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Energy Storage Yuan Yanga+, Guangyuan Zhengb+ and Yi Cui*ac a Department of Materials Science and Engineering and b department of Chemical Engineering, Stanford University, ...

More importantly, this battery can be readily enlarged to a bench scale flow cell of 1.2 Ah with good capacity retention of 89.7% at the 500th ...

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Yang, Yuan, Zheng, Guangyuan, Cui, Yi (2013) A membrane-free lithium/polysulfide semi-liquid battery for large-scale energy storage. Energy & Environmental ...

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