

Yu yan energy storage materials

Currently, carbon materials, such as graphene, carbon nanotubes, activated carbon, porous carbon, have been successfully applied in energy storage area by taking advantage of their structural and functional diversity. However, the development of advanced science and technology has spurred demands for green and sustainable energy storage materials. ...

ConspectusAs the world transitions away from fossil fuels, energy storage, especially rechargeable batteries, could have a big role to play. Though rechargeable batteries have dramatically changed the energy landscape, their performance metrics still need to be further enhanced to keep pace with the changing consumer preferences along with the ...

In Sodium-Ion Batteries: Energy Storage Materials and Technologies, eminent researcher and materials scientist Yan Yu delivers a comprehensive overview of the state-of-the-art in sodium-ion batteries (SIBs), including their design principles, cathode ...

His research focuses on energy storage materials for battery applications, especially on novel composite materials, new binders, and new electrolytes for Li-ion and Na-ion batteries. Yan Yu is a Professor of material science at the University of Science and Technology of China (USTC). She received her Ph.D. in material science at USTC in 2006.

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Topological quantum materials (TQMs) have symmetry-protected band structures with useful electronic properties that have applications in information, sensing, energy and other technologies. In the past 10 years, applications of TQMs in the fields of energy conversion and storage, including water splitting, ethanol electro-oxidation, batteries, ...

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