

What are the Research Frontiers in energy storage systems?

Our study reveals 19 research frontiers in ESTs distributed across four knowledge domains: electrochemical energy storage, electrical energy storage, chemical energy storage, and energy storage systems.

How are research frontiers distributed in the knowledge domains?

The knowledge domains proposed in Figure 5 describe the distribution of frontiers in the knowledge domains. Among them, the research frontiers are distributed in the following four knowledge domains: electrochemical energy storage, electrical energy storage, chemical energy storage, and energy storage systems.

What are the four knowledge domains of energy storage technology research frontiers?

Among them, the research frontiers are distributed in the following four knowledge domains: electrochemical energy storage, electrical energy storage, chemical energy storage, and energy storage systems. Knowledge domain map of energy storage technology research frontiers.

How many energy storage technologies are there?

In four domains, 19 energy storage technologies have been identified as energy storage research frontiers, including lithium batteries, supercapacitors, and new-generation batteries. Among them, the growing fronts and emerging fronts occur in the domain of electrochemical energy storage and chemical energy storage.

What is the highly cited energy storage technology literature?

The highly cited energy storage technology literature is used as the basis for revealing the evolution trend of research frontiers. The "highly cited literature" defined in this study refers to the 20 most cited articles in the energy storage field during the period from 2013 to 2022.

Are batteries and supercapacitors a next-generation electrical energy storage technology?

Lukatskaya et al. reviewed the frontiers of electrical energy storage technologies, outlined the methods of overcoming the current limitations, and proposed devices combining batteries and supercapacitors as next-generation electrical energy storage technologies.

The energy-storage frontier: Lithium-ion batteries and beyond George Crabtree, Elizabeth Kucsko, and Lynn Trahey Materials play a critical enabling role in many energy technologies, but their ...



# Energy storage product frontier



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