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Are metal-ion batteries the future of energy storage?
Energy storage systems have been attracting ever-increasing interest in recent decades, especially metal-ion batteries.

What materials can be used to develop efficient energy storage (ESS)?
Hence,design engineers are looking for new materials for efficient ESS,and materials scientists have been studying advanced energy materials,employing transition metals and carbonaceous 2D materials,that may be used to develop ESS.

Why do scientists want to develop more efficient energy storage systems?
Hence,Scientists are striving for new materials and technologies to develop more efficient ESS. Among energy storage technologies,batteries,and supercapacitors have received special attention as the leading electrochemical ESD. This is due to being the most feasible,environmentally friendly,and sustainable energy storage system.

Why do we need energy storage systems?
Consequently,there exists an urgent imperative to develop innovative energy storage systems that synergistically integrate enhanced safety profiles,cost-effectiveness and superior electrochemical performance. Such technological advancements are crucial for enabling next-generation energy storage and advancing global carbon neutrality objectives.

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