Special Issue

Advanced Technologies for Energy Storage

Message from the Guest Editor

Advanced technologies for energy storage are becoming increasingly critical as the world transitions to cleaner and more sustainable power systems. With the rise of renewable energy sources such as solar and wind, which are inherently intermittent, effective energy storage solutions are essential to ensure a reliable power supply. Advanced battery technologies, such as lithium-ion, solid-state, and flow batteries, are at the forefront of this evolution. These systems offer higher energy density, faster charging capabilities, and improved safety profiles, making them ideal for both grid-scale applications and electric vehicles. As research and development continue, these advanced technologies are expected to reduce costs, improve efficiency, and enhance integration with smart grids, playing a pivotal role in decarbonizing energy systems and supporting a resilient, low-carbon future.

Guest Editor

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