



Recent Advances in Energy Storage Systems

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Message from the Guest Editors

Renewable energy sources (RESS) are being extensively employed to address issues related to oil depletion, increasing energy demand, and global warming. Their strong dependence on weather conditions emphasizes a double-folded variability, both in space and over time. To overcome this inherent intermittency, energy storage systems (ESSs) represent a key factor to provide the required additional flexibility.

Hybrid energy storage systems (HESSs), based on complementary storage technologies, enable high RES penetration into modern and sustainable power generation, improving an energy system's performance and enhancing the reliability and quality of supply. Intelligent facilities are to be designed and included in future ecofriendly and highly efficient networks.

This Special Issue aims to include articles on the following aspects of energy storage (but are not limited to):

- hybrid energy storage systems
- stationary energy storage systems
- mobile energy storage systems
- renewable energy integration
- integration of energy storage in micro-grids
- battery
- electrolyzer
- flywheel

