

Special Issue

Advances in Heat Transfer and Thermal Energy Storage Systems

Message from the Guest Editors

Different research fields are studying energy, its transformation, optimisation, and storage due to its social impact worldwide. The energy storage technology for different applications should be selected according to the capacity, power and efficiency, storage period, charge and discharge time, lifetime, and cost. This Special Issue, focusing on energy storage, includes all kinds of studies where the main aim is to store energy in off-peak times and use it during peak times, highlighting new knowledge on modeling, simulation, design, and optimisation.

The fields of interest include, but are not limited to, the following:

- Thermal energy storage, mechanical energy storage, chemical energy storage, electric energy storage, or electrochemical energy storage;
- Fuel cells;
- Management of energy during contingencies;
- Modelling and life cycle analysis of energy devices;
- Instrumentation for assessment of devices for energy storage;
- Material transformation to increase energy density;
- Design and operation of energy grids with energy storage;
- Development of prototypes for rural areas.

Guest Editors

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