

## Special Issue

# Advances in Power System for Energy Storage

### Message from the Guest Editors

The global transition to cleaner, sustainable energy has driven major progress in energy storage technologies and their integration into modern power systems. Energy storage is vital for integrating renewable sources, improving power quality, grid stability, and enabling smart energy management. This Special Issue focuses on recent advances and practical solutions in energy storage integration. We welcome original research, reviews, and case studies on topics such as renewable energy integration, hybrid systems, battery energy storage systems (BESSs), power electronics, grid management, power quality, and AI in power system optimization. We especially encourage work on control strategies, modeling, energy-saving methods, demand-side management, and emerging technologies like vehicle-to-grid (V2G) and distributed energy resources (DERs). Topics related to smart grids, microgrids, and battery management systems (BMSs) are also welcome. This issue provides a platform for researchers, engineers, and professionals to share innovations that support efficient, reliable, and intelligent power systems.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 December 2025)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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