

## Special Issue

# Advances in Energy Storage Technologies to Meet Future Energy Demands

### Message from the Guest Editors

The Issue aims to showcase the latest research and innovations in energy storage technologies, covering materials, system design, control strategies, and applications. We invite contributions that address energy storage systems, with a focus on improving efficiency, scalability, and sustainability.

Topics of interest for publication include, but are not limited to, the following:

- Advanced battery technologies: lithium-ion, solid-state, flow batteries, and beyond;
- Supercapacitors and hybrid energy storage systems;
- Flywheels and mechanical energy storage;
- Thermal energy storage materials and systems;
- Grid-scale energy storage solutions;
- Grid-forming energy storage and related technologies;
- Energy storage for electric vehicles and transportation;
- Power electronics and control strategies for energy storage systems;
- Second-life applications and recycling of energy storage devices;
- Economic and environmental impacts of energy storage technologies;
- Novel materials for high-performance energy storage;
- Integration of energy storage with renewable energy systems;
- Smart grid and microgrid applications of energy storage.
- We look forward to yours submissions.

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### Guest Editors

Dr. Yunhui Huang

School of Automation, Wuhan University of Technology, Wuhan 430070, China

Dr. Peng Wei

School of Automation, Wuhan University of Technology, Wuhan 430070, China

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### Deadline for manuscript submissions

31 December 2026



## Sustainability

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

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