

Special Issue

Technologies for Energy Storage, Conversion, and Saving

Message from the Guest Editors

The Issue aims to show recent research and breakthroughs in electric energy storage systems, energy conversion systems, and energy-saving method that can drive electric vehicle performance, longevity, and sustainability. With an increasing demand for energy storage solutions, battery technologies remain critical. Besides, innovations in thermal management, fast-charging infrastructure, and energy conversion processes play vital roles in optimizing EV efficiency and enhancing user experience. We seeks to address existing challenges envisaged with usage of sustainable powertrain and energy storage/conversion technologies to achieve zero carbon emission goals.

The issue welcomes articles of the following topics: novel battery technologies and advanced modelling techniques; emerging fuel cell technologies and modelling approaches; next-generation battery management systems; innovations in battery thermal management systems; technologies for second-life battery applications; novel electric drive units and sustainable powertrain technologies; integration of energy storage systems in electric vehicles and smart grids; fast-charging technologies for electric vehicles.

Guest Editors

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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. *Sustainability* publishes original research articles, review 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.

Editor-in-Chief

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