

Special Issue

Advances in Efficient and Sustainable Transport Using Electric Vehicles and Energy Storage in Transport

Message from the Guest Editor

Dear Colleagues: As electric vehicles (EVs) continue to merge into the mainstream, their role as transport solutions and dynamic components within the broader energy ecosystem becomes increasingly significant. EVs are not merely conveyances, but pivotal components in the achievement of energy efficiency and management. The imperative to minimize humanity's carbon footprint and foster an environmentally friendly transport ecosystem propels the narrative of this Special Issue. It is a dialogue of discovery that challenges the status quo, seeking to redefine mobility through technological innovation in electric drive systems and renewable energy integration, coupled with examining the intricate dynamics of EVs as active participants in energy storage and distribution. The scope of this Special Issue includes the following topics: The development and optimization of efficient electric propulsion systems. Enhancements in the battery technology, lifespan and performance of EV applications. The integration of renewable energy sources with EV charging infrastructure. Explorations of Vehicle-to-Grid (V2G) and Grid-to-Vehicle (G2V) systems as energy storage and regulation.

Guest Editor

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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.

Editor-in-Chief

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