Special Issue

Smart Battery Energy Management for Electric Vehicles

Message from the Guest Editor

The transition to electric vehicles (EVs) is a key step toward sustainable transportation, reducing dependence on fossil fuels, and minimizing greenhouse gas emissions. However, the efficiency, reliability, and longevity of EVs depend significantly on smart battery energy management. Advances in battery technologies, real-time monitoring, and intelligent control strategies are crucial to optimizing energy use, extending battery life, and enhancing vehicle performance.

This Special Issue aims to present and disseminate recent advances in smart battery energy management for electric vehicles, covering aspects such as energy optimization, fault diagnosis, control strategies, and predictive maintenance. By addressing challenges in battery modeling, state estimation, and thermal management, it seeks to foster the development of more efficient and resilient energy management solutions.

We invite researchers and industry experts to contribute to this Special Issue by sharing their latest findings and innovations in the field of smart battery energy management for electric vehicles.

Guest Editor

Prof. Dr. El Hassane Aglzim
DRIVE Laboratory UR1859, Université Bourgogne Europe, 58000 Nevers, France

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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