

Special Issue

Modeling, Diagnosis and Protection for Li-Ion Battery Energy Storage System

Message from the Guest Editors

Lithium-ion batteries are often connected in series and parallel to formulate a lithium-ion battery system (pack) for meeting the high-voltage and high-capacity requirements of energy storage systems. It is particularly important to accurately model the behaviors, estimate the states, diagnose the degradation and faults of the battery energy storage system, and further take necessary measures to prevent any potential safety hazards. However, with an appreciable number of batteries available worldwide, it is challenging to capture the performance, monitor the states, and identify the faults of each battery. This Special Issue expects to explore research innovation within the battery system engineering challenge that incorporates modeling, state estimation, diagnostics, prognostics, control engineering, system design, and safety engineering; thus, promoting the mass commercialization and popularity of the Li-ion battery energy storage system. Manuscripts from cross-disciplinary fields, theoretical and practical studies and novel methods are strongly encouraged and welcome.

Guest Editors

Prof. Dr. Bingxiang Sun

Dr. Liye Wang

Dr. Linfeng Zheng

Dr. Haijun Ruan

Dr. Dongsheng Ren

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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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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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