

Special Issue

Electricity and Electronics in Intelligent Battery Management Systems of Electric Vehicles

Message from the Guest Editors

Dear colleagues, Power batteries have been used various types of electric vehicles (EVs), which can facilitate the decarbonization of the transport sector. The battery management system (BMS) has important functions, including battery monitoring, modelling, parameter and state estimation, control and diagnosis, etc. Developing advanced BMS technologies is vital to enhance the safety, efficiency, reliability, and lifespan of the battery system, which are critical to the EV's performance. This Special Issue focuses on emerging technologies and recent breakthroughs of the BMS in automotive applications. Research articles, review articles, and short communications are welcomed. Topics of interest include, but are not limited to:

- State of X estimation
- Battery monitoring, prognostic and diagnostic of power batteries
- Battery modeling, remaining useful lifetime models and evaluations
- Battery system model
- Battery thermal management systems
- Battery fast charging: modeling, estimation and control strategies
- Battery recycling/repurposing
- Battery full life-span management
- Application of novel technologies in the BMS for electric vehicles

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Deadline for manuscript submissions



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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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