

## Special Issue

# State Estimation and Efficient Charging Strategies for Lithium-Ion Batteries in Electric Vehicles

### Message from the Guest Editors

Electric vehicles have achieved rapid development and popularity in the passenger car market due to their superior driving performance and green environmental characteristics. Lithium-ion battery packs are the power core of electric vehicles, though the degradation mechanism of lithium-ion batteries is complex, making it difficult to estimate the state of health and safety of such batteries. Improper charging and discharging control can easily lead to safety issues with such batteries. Conducting research on state estimation and charging and discharging optimization strategies for batteries is vital for enhancing the competitiveness and safety of new energy vehicles. This Special Issue will provide an outlet for novel and original research on all aspects of prognostics and health management of lithium-ion batteries for electric vehicles, as well as electric vehicle charging circuit topology and electric vehicle charging strategy optimization, including experiments, characterization, mechanisms, modeling, algorithms, systems, etc.

### Guest Editors

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Dr. Jinhao Meng

Prof. Dr. Haitao Liu

Dr. Xinrong Huang

### Deadline for manuscript submissions

closed (30 April 2026)



## World Electric Vehicle Journal

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## About the Journal

### Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

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### Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

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