

## Special Issue

# Battery Management in Electric Vehicles: Current Status and Future Trends: 2nd Edition

### Message from the Guest Editor

Li-ion batteries (LiBs) are an essential component of zero-carbon energy transition around the world and for reaching the COP26's goal of securing global net-zero emissions by the middle of the century. However, their rapid growth is accompanied by significant drawbacks. It is expected that their continual demand for use in electric vehicles (EVs) will lead to global environmental and supply chain concerns, as the critical materials used in LiBs (e.g., cobalt, lithium, nickel, graphite, manganese) are finite and mined in only a few regions around the world. This means we will eventually have to deal with significant battery waste. However, with appropriate and improved battery management in EVs, we can enhance the performance of these batteries, prolong their life in Evs, enable their use in secondary applications, and promote the recycling and re-use of EV batteries to mitigate global environmental and supply chain concerns. This Special Issue of *Batteries* aims to explore recent advances and future trends in battery management in Evs that will enable us to reach global net-zero emissions by the middle of the century.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 September 2025)



## Batteries

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