



an Open Access Journal by MDPI

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

Guest Editor:

Dr. Prodip K. Das

School of Engineering, University of Edinburgh, Edinburgh EH9 3FB, UK

Deadline for manuscript submissions: **20 December 2024**

Message from the Guest Editor

Dear Colleagues,

Li-ion batteries (LiBs) are an essential component of zerocarbon 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 reuse 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 netzero emissions by the middle of the century.



mdpi.com/si/187697







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Andreas Jossen

Institute for Electrical Energy Storage Technology (EES), Technical University München (TUM), Arcisstrasse 21, 80333 Munich, Germany

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.

Author Benefits

Open Access:— free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases. **Journal Rank:** JCR - Q2 (*Electrochemistry*) / CiteScore - Q2 (*Electrochemistry*)

Contact Us

Batteries Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/batteries batteries@mdpi.com X@batteriesmdpi