



Advances in Battery Electric Vehicles

Guest Editors:

Dr. Mohamed Becherif

FEMTO-ST Institute, Université
Bourgogne Franche-Comté,
CNRS, UTBM, 90000 Belfort,
France

Dr. Mehroze Iqbal

FEMTO-ST Institute, Université
Bourgogne Franche-Comté,
CNRS, UTBM, 90000 Belfort,
France

Dr. Amel Benmouna

School of Business and
Engineering, ESTA Belfort, 90000
Belfort, France

Deadline for manuscript
submissions:

closed (10 October 2023)

Message from the Guest Editors

To accomplish the envisioned goal of a carbon-free society, the traditional automotive industry is aggressively transitioning to its electrified counterpart. The prominence of battery electric vehicles powered by clean and sustainable sources is therefore evident. The potential topics of the Special Issue include but are not limited to:

- Material design for conventional and contemporary batteries;
- Electrochemical processes and electrolyte for batteries;
- Novel ideas and futuristic trends towards solid-state and sodium-ion batteries;
- State of charge estimation using data-driven and classical approaches;
- Diagnostic and prognostic modeling for health monitoring;
- Battery management systems;
- Modelling, implementation, and analysis of vehicular design;
- Safety standards;
- Marketing and economics;
- Modern trends towards electric charging infrastructure;
- Thermal management systems for batteries;
- Standards and protocols;
- Recycling of battery packs;
- Design, analysis, control, and implementation of motor drives;
- Dimensioning and design of battery packs.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Karim Zaghib

Department of Chemical and
Materials Engineering, Concordia
University, Montréal, QC H3G
1M8, Canada

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 (Electrical and Electronic Engineering)

Contact Us

Batteries Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/batteries
batteries@mdpi.com
[X@batteriesmdpi](#)