

## Special Issue

# Advances in Battery Electric Vehicles

### 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.

---

### Guest Editors

Dr. Mohamed Becherif

Dr. Mehroze Iqbal

Dr. Amel Benmouna

---

### Deadline for manuscript submissions

closed (10 October 2023)



## Batteries

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.8  
CiteScore 6.6



[mdpi.com/si/150056](https://mdpi.com/si/150056)

*Batteries*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[batteries@mdpi.com](mailto:batteries@mdpi.com)

[mdpi.com/journal/  
batteries](https://mdpi.com/journal/batteries)





# Batteries

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.8  
CiteScore 6.6



[mdpi.com/journal/  
batteries](https://mdpi.com/journal/batteries)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Karim Zaghib

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

---

### 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 - Q1 (Electrical and Electronic Engineering)