

## Special Issue

# Redox Flow Batteries for Large-Scale Energy Storage

### Message from the Guest Editors

Renewable energy sources such as solar and wind power have shown great promise to relieve the dependence on fossil fuels, thereby achieving a low-carbon society. However, due to the intermittent nature of renewables, the power generated cannot provide stable and consistent power delivery. Thus, energy storage technologies, battery technologies in particular, are needed to address the challenges associated with modernizing the power grid. Amongst different battery technologies, flow batteries are regarded as the most promising candidates for large-scale energy storage systems, offering long hours of storage capacity. This vision has driven intensive research into the development of flow battery technologies that combine performance and cost merits. In addition, the exploration of suitable battery management and control strategies is also key to enhancing the safety, reliability, and cost efficiency of the battery system...

---

### Guest Editors

Dr. Tuti Mariana Lim

Dr. Arjun Bhattacharai

Dr. Zhongbao Wei

---

### Deadline for manuscript submissions

closed (26 May 2021)



## Batteries

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 4.0



[mdpi.com/si/20926](https://mdpi.com/si/20926)

*Batteries*

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 4.6  
CiteScore 4.0



[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 - Q2 (Electrical and Electronic Engineering)