batteries

an Open Access Journal by MDPI

IMPACT FACTOR 4.6

CITESCORE 4.0

Lithium-Ion Batteries Aging Mechanisms

Guest Editor:

Dr. Mauro Francesco Sgroi
Materials Engineering, Methods and Tools, Centro Ricerche FIAT, Strada Torino 50, 10043 Orbassano, Italy

Deadline for manuscript submissions:
closed (27 May 2021)

Message from the Guest Editor

Lithium batteries (including lithium–ion, lithium–sulfur and lithium–air cells) are considered enabling technology for important industrial sectors including electrified vehicles, consumer electronics and stationary energy storage. The calendar and cycle life are key performances to guarantee the penetration in the market of energy storage systems (ESS) based on lithium batteries. The understanding of chemical and physical mechanisms of battery degradation is the first step to develop more reliable and durable systems. Moreover, the monitoring of the battery during its life through different type of sensors to determine the state of health (SOH) and the use of self-healing materials are becoming more and more popular solutions to improve the reliability and durability of Li–ion batteries.

batteries

an Open Access Journal by MDPI

IMPACT FACTOR 4.6

CITESCORE 4.0

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