Special Issue

Lithium-Ion Batteries Aging Mechanisms

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.

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)

Batteries

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 6.6

mdpi.com/si/40414

Batteries
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
batteries@mdpi.com

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Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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