

Special Issue

Batteries and Supercapacitors Aging

Message from the Guest Editors

Electrochemical energy storage is a key element of systems in a wide range of sectors, such as electro-mobility, portable devices, or renewable energy. Energy storage systems (ESS) considered here are batteries, supercapacitors or hybrid components such lithium-ion capacitors. The durability of ESS determines the total cost of ownership and the global impacts (life cycle) on a large portion of these applications and thus their viability. Understanding of ESS aging is a key issue to optimize their design and usage towards their applications. Knowledge of the ESS aging is also essential to improve their dependability (reliability, availability, maintainability and safety). In this Special Issue, we are looking for contributions helping to understand aging mechanisms, modes and factors, to perform ESS diagnosis and prognosis and innovative solutions to prolong their lifespans.

Guest Editors

Prof. Dr. Pascal Venet

Department of the Ampère Laboratory, Claude Bernard University Lyon 1, 69100 Villeurbanne, France

Dr. Eduardo Redondo-Iglesias

Department of Planning, Gustave Eiffel University, 69500 Bron, France

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

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Editor-in-Chief

Prof. Dr. Karim Zaghib

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

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