Special Issue

Batteries and Supercapacitors Aging

Message from the Guest Editors

This issue is a continuation of the previous successful Special Issue "Batteries and Supercapacitors Aging". Electrochemical energy storage is a key element of systems in a wide range of sectors, such as electro-mobility, portable devices, or renewable energy. The 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 ESS aging is a key issue for optimizing their design and usage within their applications. Knowledge of ESS aging is also essential for improving their dependability (reliability, availability, maintainability, and safety). In this Special Issue, we are looking for contributions helping to understand the aging mechanisms, modes, and factors for performing ESS diagnosis and prognosis, as well as innovative solutions for prolonging their lifespans.

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