Special Issue

Battery Aging and Life Prediction for Electric Vehicles, Energy Storage Systems and Portable Electronics

Message from the Guest Editor

Battery aging and life prediction have become a challenge and research hotspot in many application areas, such as electric vehicles, energy storage systems and portable electronics. Hence, their degradation identification, state estimation, and prediction of remaining useful life have become a focus of attention to avoid its premature failure and improve system reliability. An advanced battery management system which can accurately monitor the battery degradation process and predict life is essential for the automated and optimized scheduling of the maintenance which, in turn, ensure the safe operation and extended life of batteries. This Special Issue highlights research at the forefront of this field, inviting contributions addressing battery modeling and aging mechanism, anti-aging operation methodologies, life span and remaining useful life prediction, diagnosis and prognosis, accelerated life testing and data analysis, optimal battery management strategies, and application of artificial intelligence.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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