Topical Collection

Recent Advances in Battery Management Systems

Message from the Collection Editor

Four major pillars drive advances in battery energy storage: (1) materials science and engineering, including electrochemistry, which enables new battery types and variants to produce a better performance at the cell level; (2) battery design and manufacturing technology, which enables reliable and cost-effective battery modules and packs; (3) battery management systems, which enable the safe and effective operation with an optimum life-cycle cost; and lastly (4) application technologies, which generate the demand and requirements for battery systems. This particular topical collection shall focus on the Battery Management System (BMS). A BMS enables a battery system to be smart, which is important to maximize the value of the battery energy storage system. BMS technology varies in complexity and capabilities. Their topologies may be centralized, distributed, or modular. Some BMSs employ edge processing, while some incorporate computational and machine intelligence and are capable of learning. I welcome you to contribute your articles to this important topic of Advances in Battery Management Systems.

Collection Editor

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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.

Editor-in-Chief

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