Special Issue

Advances in Dual-Ion Batteries

Message from the Guest Editor

This special issue aims to present the latest findings on all aspects related to dual-ion battery research, i.e., it is not only restricted to systems based on graphitic carbon cathodes or on lithium ions as ionic charge carrier. Manuscripts presenting studies of the following topics are highly welcome: (i) dual-carbon or dual-graphite batteries, (ii) novel anion-hosting cathode materials, such as organic cathodes or metal–organic frameworks, (iii) synthesis and characterization of novel electrolytes for dual-ion batteries, (iv) novel dual-ion systems, based on sodium, potassium or other cations, (v) electrochemical performance and stability studies, (vi) interfacial phenomena and studies of the interphases (SEI and CEI), and (vii) electrode opimization and volume change control.

- stationary energy storage
- dual-ion batteries
- dual-carbon batteries
- dual-graphite batteries
- anion hosting cathodes
- anion intercalation
- graphite intercalation compounds
- ion transport processes
- organic cathodes
- metal-organic frameworks

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2018)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/12560

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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