

Advances in Na-Ion/K-Ion Batteries and Capacitors

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submissions:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue invites original research articles, communications, perspectives, and comprehensive review papers on any types of next-generation KIBs, NIBs, KHCs, and NHCs, to expand the current knowledge of electrochemistry and charge storage mechanisms in these emerging energy storage devices. We also welcome state-of-the-art contributions on the development of innovative nanomaterials as either anode or cathode electrode materials for these energy storage devices. In particular, the topic of interest includes, but is not limited to, the following keywords:

- K-ion batteries
- Na-ion batteries
- K-ion capacitors
- Na-ion capacitors
- anodes
- cathodes
- solid–electrolyte interphase
- electrolytes
- nanomaterials
- simulations and DFT calculations



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Special Issue

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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