

Special Issue

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

Message from the Guest Editor

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

Guest Editor

Dr. Masoud Nazarian-Samani

Department of Materials Science and Engineering, Yonsei University, Seoul, Korea

Deadline for manuscript submissions

closed (28 March 2022)



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Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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