

Special Issue

Coating Electrode Materials for Next-Generation Energy Storage

Message from the Guest Editors

This special issue will cover surface and interface modifications of electrode materials for different battery chemistries, especially “beyond lithium-ion”, aimed at next-generation energy storage. Considering your outstanding contribution in this emerging field, I would like to cordially invite you to submit a research paper or a mini review of your research to this special issue focusing on the application of electrode coating in the context of following topics:

- Lithium-ion and lithium-metal batteries
- Sodium-ion and sodium-metal batteries
- Aqueous zinc-ion and zinc-metal batteries
- Supercapacitors
- Aqueous metal-air batteries
- Other alkali and multivalent batteries including K, Al, and Mg batteries
- Solid-state lithium/sodium-metal batteries

The scope includes their material development, testing, modelling, applications, and economy analysis. We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Xiaowen Zhan

Dr. Wei Sun

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Deadline for manuscript submissions

closed (20 May 2024)



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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.

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