

Special Issue

Advanced High-Energy Metal-Ion Batteries

Message from the Guest Editor

Electric vehicles (EV) are continuing to gain market share, driven in part by government initiatives to clean up urban air and address the energy crisis. As such, we invite you to contribute to this Special Issue, Advanced High-Energy Metal-Ion Batteries, focused on the production and innocuous treatment of the lithium-ion batteries that are “under the hood” of these vehicles, as well as technologies for their recovery. It is important that researchers developing physico-chemical processes for batteries consider the impacts of the full supply chain of the technologies they are developing to inspire creativity at the bench that leads to sustainability on the road. The scope of this Special Issue on high-energy metal-ion batteries includes, but is not limited to, lithium-ion batteries, sodium-ion batteries, potassium-ion batteries, zinc-ion batteries, and their corresponding metal batteries, as well as battery components such as cathode materials, electrolytes, anode materials, current collectors, separators, etc. We welcome contributions on these topics that support the development of ion batteries and new energy vehicles.

Guest Editor

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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