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Advanced (Lithium-, Sodium-) Battery Materials and Devices Designed for Energy Conversion

Guest Editor:

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Message from the Guest Editor

In recent years, the research of solid-state batteries has become a hot spot, including the development of new solid-state electrolyte materials, the improvement of chemical and electrochemical stability, and the design of electrode and electrolyte structure. Electrode materials with high specific capacity, stable structure and stable interface between electrode materials and the electrolytes are the key factors to build batteries with high performance. Sodium is abundant in the Earth's crust; therefore, sodium ion battery is considered to be one of the most promising candidates for the next generation of electrochemical power sources, and more and more research is focused on the basic issues of sodium ion batteries.

- lithium/sodium ion batteries
- solid-state batteries
- interface engineering
- lithium/sodium sulfur batteries
- lithium/sodium oxygen batteries
- sodium-based batteries
- cathode
- anode
- electrolyte
- catalyst

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Message from the Editor-in-Chief

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