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# **Recent Advances in Electrode Materials for Alkali-Metal Ion Batteries**

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Deadline for manuscript submissions: closed (15 July 2023)

### Message from the Guest Editor

Dear colleague,

The sustainable development of high-performance, environmentally friendly and cost-effective electrochemical energy storage systems has been recognized as an important avenue towards the minimization of the dependence on fossil fuels, the successful usage of energy harvested from intermittent renewable sources. Among the advanced electrochemical energy storage systems, the Liion battery has been at the forefront, and is now to be a fairly matured technology. considered Nevertheless, in order to meet the ever-increasing demand and to ensure adequate safety, further progress with the Liion battery system is needed. Moving forward, in terms of sustainability, the upcoming Na-ion/K-ion/Mg-ion battery system has certain advantages over its Li-ion counterpart due to the widespread availability of Na/K/Mg-precursors.

The potential topics of this Special Issue include, but are not limited to, the following:

- Alkali metal-ion/Solid-state battery systems
- Electrode materials;
- Material-electrochemical interactions;
- Air/water stability of electrode materials;
- Cell fabrication and optimization;
- Recycling materials/components





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