



## Electrochemical Energy Storage: Beyond Li-ion Technology

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### Message from the Guest Editors

Rechargeable lithium batteries have become the most widespread devices for electrochemical energy storage for nomad systems. Indeed, Li-ion technology has reached the zenith of its development (in terms of anode and cathode materials), and relatively little room is available for further improvements in terms of cost and specific capacity. Efforts are, however, needed to tackle issues related to safety and electrolytes. Today, however, such technology is not ready, alone, to meet some of the requested performance, cost, and environmental requirements. The present situation has thus encouraged scientists to diversify explored technologies. Among the considered alternative technologies, Na-ion, K-ion, multivalent-ion (mainly Mg-ion), Li-sulfur, Li-air, and redox-flow batteries are some of the ones that have been covered the most in the last decade.

This Special Issue intends to underline the cutting-edge advances in alternative technologies for electrochemical energy storage. It aims to cover new materials, strategies, and designs but also the advances in characterization tools and diffraction methods used for the specific development of new technologies beyond Li-ion batteries.





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## Message from the Editor-in-Chief

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