



## Applications of High-Performance Electrolyte Materials in Batteries

Guest Editor:

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submissions:

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### Message from the Guest Editor

Dear Colleagues,

Existing battery technologies still face challenges, including barriers to specific energy, energy density, and service life, originating from the fundamental behaviour of the active and inactive materials used. With all their benefits and drawbacks, electrolytes play a critical role in terms of design and control of electrode processes, as well as regarding material interactions, and performance of a battery.

Battery chemistry and the materials within are selected based on the requirements of the application. Li-ion has been dominating in applications that require high energy density. Common to all battery chemistries, understanding the phenomena and correlations within materials and at their interfaces is a requirement for the development of better and safer batteries.

This Special Issue focuses on materials related to electrolytes and electrode-electrolyte interfaces of the various modern battery technologies in research. We warmly welcome contributions of manuscripts reporting the following: development of electrolyte materials and electrode coatings, as well as material characterization.

Prof. Dr. Weizhai Bao

*Guest Editor*





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## Message from the Editor-in-Chief

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