# Special Issue

# Beyond Lithium-Ion Battery Technology

### Message from the Guest Editors

Today's society is relying on the use of lithium (Li) ion batteries to power portable electronics and electric vehicles. However, with the increasing demand for higher energy density, better safety and lower cost, Li-ion batteries are encountering different kinds of challenges and issues. Continuous development of novel battery chemistries and electrode materials are highly desired to build better batteries beyond Li-ion batteries. The “beyond Li-ion” batteries with various anodes (like Na, Zn and Al), cathodes (such as sulfur and air) and solid-state electrolytes are emerging alternative systems because of their high energy density, low cost, good safety, environmental friendliness, etc. In this context, we are calling for papers on this Special Issue to promote current research on inorganic materials for battery technology beyond lithium-ion. Potential topics include but are not limited to:

- Sulfur, air and carbon dioxide cathodes;
- Li-metal anodes;
- Na/K ion batteries;
- Multivalent metal (Zn, Ca, Mg, Al) ion batteries;
- Redox flow batteries;
- Inorganic or polymer solid-state electrolytes.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 March 2023)

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CiteScore 5.3

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## Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

## Editor-in-Chief

Prof. Dr. Duncan H. Gregory
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