



Advances in Lithium Ion Batteries

Guest Editor:

Dr. Masoud Baghernejad

Forschungszentrum Jülich
GmbH, Helmholtz Institute
Münster, 48149 Münster,
Germany

Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editor

In this **Special Issue**, we are looking for contributions helping to:

- Understand the nature and mechanisms associated with the formation of the interphase through in situ and ex situ post-mortem analysis;
- Develop in situ techniques for interphase characterization;
- Understand the interphase composition at the nanoscale;
- Tune the interphase through electrolyte formulations, functional additives, and an artificial interphase approach;
- Determine the impact of the interphase composition and structural properties on the lithium battery's overall performance.

The topics of interest include but are not limited to:

- The analysis of the interphase composition, thickness, and morphology;
- A nanoscale approach to interphase investigation;
- Innovative electrolyte-based approaches to interphase tuning;
- The effects of different electrode materials and electrochemical parameters on the interphase;
- The battery cell design's effect on the interphase;
- Interphase modeling and simulation.





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Editor-in-Chief

Prof. Dr. Patricia Luis Alconero
Materials & Process Engineering,
UCLouvain, Place Sainte Barbe 2,
1348 Louvain-la-Neuve, Belgium

Message from the Editor-in-Chief

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Clean Technologies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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