Special Issue

Polymers for Sustainable Lithium-Ion Battery

Message from the Guest Editors

The revolution of electric transportation is driving a surge of lithium-ion (Li-ion) battery demand. A potential backlash of the electric vehicle revolution is the high number of retired batteries, which can, in turn, significantly impact the environment. It is thus crucial to develop green strategies, from cradle to cradle, for battery sustainability. Polymers are critical ingredients in Li-ion batteries, for instance, comprising the binder, separator, and electrolyte, as well as involved in the fabrication process, such as solvent casting. This Special Issue of the open access journal *Polymers* aims to collect research and reviews on the topic of polymers employed in Li-ion batteries that can facilitate their green fabrication and sustainability, including:

- Novel approaches and concepts
- Synthesis method and mechanisms
- Reduction of waste and cost
- Green fabrication technology
- Recycle and reuse processes and approaches
- Natural or bio-derived resources
- Life cycle assessment

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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