



Functional Polymer for Battery Applications

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submissions:

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Message from the Guest Editors

Batteries are of utmost importance in our society to store electricity and power many applications from small electronics to large-scale stationary wind and solar farms. Today, lithium-ion devices are the most predominant solutions for most of these applications but suffer from strong safety issues due to the presence of flammable liquid electrolyte (leaks, fires, explosions). Therefore, replacing the conventional liquid-based electrolyte with a polymeric electrolyte material is a promising strategy. Indeed, by nature, polymers are safe, flexible, and can be produced in various shapes.

This Special Issue of the journal *Polymers* (MDPI) led by researchers, an Assistant Professor, and a Professor from the Laboratory of Electrochemistry and Physico-Chemistry of Materials and Interfaces (**LEPMI**), affiliated with the University of Grenoble Alpes, Grenoble Institute of Technology and the CNRS, aims to gather high-quality original research as well as reviews or short reviews in the rapidly expanding field of functional polymers for battery applications using alkali and alkaline earth metal ions.





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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.

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