

Special Issue

Polymer-Based Batteries

Message from the Guest Editors

Recent developments in secondary battery technology are directed towards the replacement of liquid electrolyte with a polymer membrane capable of concurrently serving as the separator and an electrolyte, in order to achieve the captivating concept of safe, high energy and durable batteries having a full-plastic structure. In recent years, polymer-based batteries have become a hot topic and this Special Issue attempts to provide a critical overview of the state-of-the-art technologies of polymer (gel, quasi-solid, solid, composite) electrolyte membranes for energy storage devices (including lithium metal to lithium-ion batteries and post-lithium systems, such as lithium-sulphur, lithium-oxygen, sodium, aluminium and magnesium batteries), their technological challenges, innovative designs and future perspectives. A collection of comprehensive reviews from leading experts and up-to-date researches from notable groups in the scientific community is thus presented, also enlightening interesting results from high-level young investigators.

Guest Editors

Prof. Dr. Claudio Gerbaldi
Dr. Jijeesh R. Nair
Prof. Dr. Federico Bella

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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 4.9.

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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