

Special Issue

Advanced Polymers for Electrochemical Applications

Message from the Guest Editors

This Special Issue aims at highlighting the fast progress in the field of functional polymers and the strict relationship between their usefulness and electrochemistry, both in terms of synthesis and applications. Topics of interest include but are not limited to fundamental and applied research on:

- Single ion conducting polymers
- Nanocomposite polymer electrolytes and their electrode interfaces
- Gel polymer electrolytes for energy storage and conversion devices
- Polymer electrolyte membrane fuel cells and electrolyzers
- Proton- and alkali-exchange membranes in microbial fuel cells and electrolysis systems
- Novel and bio-inspired polymer separators and binders in electrochemical systems
- Metallopolymer materials with electrochemiluminescence properties
- Innovative sensors and actuators based on polymeric materials
- Polymeric coating and cleaning systems against electrochemical corrosion
- Conductivity and transport mechanisms within polymer systems
- Spectroscopic and electrical properties of functional polymer materials
- Thermal and mechanical features of polymer-based membranes and separators

Guest Editors

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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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