Special Issue

Advances in Polymer-Based Electrochromic Devices

Message from the Guest Editors

Electrochromism is the phenomenon of the dynamic modulation of material optical properties through redox reactions under an applied electric field. It has helped find a wide range of applications in varying areas, including smart windows for energy-efficient buildings, low-power displays, self-dimming rear mirrors for automobiles, mid–far-infrared reflection modulation for infrared adaptive camouflage, thermal radiation manipulation, etc. Conventional electrochromic devices usually consist of a multilayer structure with transparent conductive layers, electrochromic films, ion-conducting layers and ion-storing films. The design and synthesis strategies of electrochromic materials and transparent conductors, comprehensive electrochemical kinetic analyses and novel device designs are areas of active research worldwide. We hope that this Special Issue promotes further efforts toward fundamental research on electrochromic materials and the development of novel multifunctional electrochromic devices to meet the growing demand for next-generation electronic systems.

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Deadline for manuscript submissions

closed (25 October 2023)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/137973

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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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