Special Issue

Advances in Polymers-Based Sensors

Message from the Guest Editors

Over the past few decades, sensors have become central to many aspects of wearable devices and flexible electronics. Polymers have attracted widespread attention as functional materials in stretchable sensors due to their advantages of excellent flexibility and stretchability. Due to their instinct characteristics, better-known synthetic polymers have been intensively investigated and applied in sensing applications. Considerable efforts have been made in the design of micro, flexible and self-powered wearable sensors. Nano-/micro-scale design and inorganic/organic material composite can realize the development of high flexibility and other required characteristics. However, the development of skin-attachable and monolithic medical devices composed of multifunctional soft sensors, scalable interconnections, wireless communication systems, and sustainable power supplies remains a major challenge. This Special Issue aims to collect the latest breakthroughs in the field of polymer-based sensors, which are particularly relevant to emerging and pioneering devices, focusing on advanced polymer materials, unique synthesis technologies or flexible electronic integration methods.

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 4.7.

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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