Special Issue

Polymer-Based Wearable Electronics

Message from the Guest Editor

Wearable electronics have great potential in health management and accessible personalized medicine. Recent years have witnessed the exponential growth of the field of wearable electronics, driven by innovations in polymer science and others. Polymers, with their flexibility, biocompatibility, and tunable properties, are enabling the development of next-generation wearable electronics with high performance capabilities, multi-functionality, tunability/adaptivity, sustainability, etc. Topics of interest include but are not limited to the following:

- *Materials and Design*:
  - Conductive and stretchable polymers;
  - Biodegradable, recyclable, and smart polymers;
  - Multifunctional gels and elastomers;
  - 3D/4D printing of polymer systems and wearable electronics.
- *Applications*:
  - Healthcare and personalized medicine;
  - Human–machine interfaces and soft robotics;
  - E-skins;
  - Energy harvesting/storage.
- *Interdisciplinary Innovations*:
  - Artificial intelligence for polymers development;
  - Signal processing and wireless communication technologies for wearable electronics;
  - Proof-of-concepts/applications of wearable electronics in clinical settings.

Guest Editor

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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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