Special Issue

Organic Neuromorphic Devices

Message from the Guest Editor

In recent years, artificial intelligence (AI) has become increasingly important in a variety of fields, including complex systems physics, data science, adaptive robotics, the Internet of Things (IoT), and so on. Most AIs are based on software that operates on digital computers, but development in software-based AI has the disadvantage of an ever-increasing energy cost. For this reason, researchers are trying to develop an energy-efficient hardware version of AI. Recently, molecules/materials-based AI has received a lot of attention in an effort to create intelligent machines that consume less energy. Furthermore, rather than program-based machines such as digital computers, which are considered unsuitable for mathematical modeling of real physical space people are living in, they are expected to adaptively respond to unexpected and rapid environmental changes. Against this backdrop on the program-based system, stochastic computing has received a lot of attention because molecules/materials such as polymers exhibit affinities such as noise generation and neuron-like nonlinear responses to external stimuli.

Guest Editor

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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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