Special Issue

Electrochemical and Spectroscopic Properties of Conducting Polymers

Message from the Guest Editors

This Special Issue focuses on conductivity properties and electric band structure of conjugated polymers (CPs). Over the past several decades, CPs have gained increasing attention owing to their strong potential as alternatives to inorganic counterparts. CPs can be discussed include bond-length alternation, resonance energy, planarity of the conjugated structure, substituent effects, π-conjugation length, etc. New structural approaches in the design of CPs are also under consideration, as are variable conductive mechanisms, e.g., electronic, ion, redox. You are encouraged to present methods of polymerization and electropolymerization and compare a variety of theoretical and experimental methods in order to better characterize the electronic structure and conducting properties of CPs: DFT, UPS, XPS, electrochemical methods (CV, DPV, EVS), electrochemical scanning tunneling spectroscopy (EC-STS), UV–Vis, etc. We also invite reports on the implementation of CPs in key but also less common applications, such as OPVs, NIR emission OLEDs, NIR detectors, biosensors, and memory devices.

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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