Special Issue

Polymeric Materials for Solar Cell Applications

Message from the Guest Editor

In the pursuit of next-generation photovoltaic technologies, polymeric materials have been established as one of the most promising alternatives to traditional inorganic solar cells. This Special Issue, "Polymeric Materials for Solar Cell Applications," aims to present the latest advancements and breakthroughs in this field. We invite contributions covering the entire spectrum of this research, from the molecular design and synthesis of novel conjugated polymers and non-fullerene acceptors to the optimization of active layer morphology and interfacial engineering. We are particularly interested in studies that address the critical challenges of enhancing power conversion efficiency (PCE), improving long-term device stability, and developing scalable fabrication techniques for commercial viability. Topics may include, but are not limited to, novel donor and acceptor materials, charge transport mechanisms, device physics, degradation studies, and the integration of polymers in emerging photovoltaic architectures like perovskite and tandem solar cells. This issue will provide a comprehensive overview of the current state and future directions of polymer-based solar energy conversion.

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 4.9.

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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