

Special Issue

Photosensitive Systems for Polymers Synthesis

Message from the Guest Editor

Safe light sources emitting from near-UV to visible light are used in many photosensitive processes. One of them is a photopolymerization reaction that has received remarkable interest in recent decades. Photopolymerization transforms a monomer into a polymer via a chain reaction initiated by reactive species: radicals or ions generated from the photosensitive compounds after irradiation with UV-Vis-NIR light. Such a process has many advantages, including low energy consumption, high rates of process, and no need to use organic solvents. Currently, light-emitting diodes are extensively applied for photopolymerization as safe environment-friendly sources that are cheap, have low energy consumption, and a long lifetime. The spectral sensitivity of processes may be extended to longer wavelengths through the introduction of photosensitive additives named photoinitiators. In this issue, new developments in high-performance photosensitive systems that can be activated from UV to near-infrared (NIR) wavelengths and their potential applications are presented.

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 4.9.

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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