



Photosensitive Systems for Polymers Synthesis

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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.

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