Special Issue

Radiation Polymers

Message from the Guest Editors

Radiation polymers are a combination of radiation technology and polymer chemistry. Using radiation techniques, polymers can be synthesized, modified, crosslinked, and degraded. The mechanisms of these processes and their applications have recently been studied extensively. This Special Issue covers the present basic and applied research work on radiation technology applied in polymers, and includes the following topics: (1) Radiation grafting for the modification of polymer and polymer materials by monomer graft copolymerization; (2) radiation crosslinking to form three-dimensionally crosslinked polymers and materials; (3) radiation inducing chain scission and degradation for polymer recycling and other applications; (4) radiation-induced polymerization to generate polymers from monomer irradiation; and (5) protection of polymers from radiation and their radiation resistance. Here, irradiation includes gamma rays, electron beam, ion beam, UV, etc. The Special Issue also covers the radiation effect on biopolymers and biomaterials and the methods for the preparation of nanomaterials using radiation technology.

Guest Editors

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Deadline for manuscript submissions

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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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