



Radiation Polymers

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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.





Editor-in-Chief

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Message from the Editor-in-Chief

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