Special Issue

Radiation Effect on Polymeric Materials

Message from the Guest Editor

Polymeric materials are used in a variety of applications today. However, polymers are not always suitable for all applications, especially in terms of their mechanical properties and chemical or thermal resistence. Both mechanical properties and temperature or chemical resistence can be modified by radiation crosslinking in order to obtain properties for use in demanding applications. Although such treatment has been studied intensively over the past few decades and has actually been commercialised, not all radiation effects on the properties of polymers have been fully described. This Special Issue will provide recent trends in the use of the irradiation of polymers; and, in particular, the radiation crosslinking of polymers—whether from the point-of-view of improving their properties or expanding their application capabilities. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome. Critical reviews in specific modern topics in the field, such as the use of irradiation in specific applications are welcome.

- polymers
- irradiation
- crosslinking
- properties
- waste management

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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