

Special Issue

Polymer Irradiation and Radiation Processing: Advances, Innovations and Emerging Applications

Message from the Guest Editors

This Special Issue invites original research, reviews, and critical perspectives on recent advances in polymer irradiation and radiation processing. Contributions covering different radiation sources, processing strategies, fundamental mechanisms, material characterisation and practical applications are encouraged. Particular interest will be given to innovative approaches that connect radiation processing with advanced functional materials, circular economy, sustainability and industrial applications. We invite researchers from academia and industry to share their latest findings and perspectives in this rapidly developing field. Topics suitable for submission include the following fields:

- Electron-beam, X-ray, UV, and plasma-assisted modification
- Crosslinking, degradation, grafting, and functionalisation
- Blends, composites, nanocomposites, biodegradable polymers, and hydrogels
- Biomedical polymers, food packaging, membranes, coatings, and agriculture
- Recycling, upcycling, ageing, durability, and sterilisation
- Industrial radiation processing

Guest Editors

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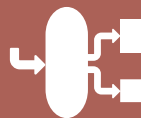
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Deadline for manuscript submissions

31 March 2027



Processes

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