Special Issue

Current Challenges to Produce Functional Polymer Films and Surfaces with Innovations in Their Applications

Message from the Guest Editors

Functional polymer films and surfaces are materials of great interest for biomedical, automotive, and packaging applications, among others. Over the last few years, significant efforts have been dedicated to the development of polymer films with improved adhesion, barrier properties, electrical conductivity, drug-releasing control, tissue engineering, and self-healing behavior. These challenges have led to the establishment of methods and strategies to obtain functional polymers with novel properties and responses. In this context, this Special Issue focuses on leading research on functional polymer films and surfaces through i. the incorporation of nanoparticles (graphene, carbon nanotubes, etc.), materials from renewable resources (lignins, cellulose, chitosan, etc.) and functional microcapsules; ii. polymer surface treatments; iii. supercritical CO2 processing and layer-by-layer assembly; iv. blending, synthesis, and tuning of biodegradable polymers; and v. functional polymer applications. Therefore, we invite research papers and reviews highlighting the development of functional materials and related processes, synthesis, and applications.

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 4.9.

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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