Special Issue

Polymer - Liquid Crystal Complex Systems

Message from the Guest Editors

The aim of this special issue is to report and highlight recent advances in research of complex systems involving liquid crystals (LCs) and polymers. These complex systems include (but are not limited) to the LC–polymer interfaces, LC polymers (LCPs), LC elastomers (LCEs) and polymer dispersed liquid crystals (PDLCs). LCPs and LCEs combine the elastic properties of the (crosslinked) polymers with the self-organization and anisotropic properties of LCs. LCPs can be extremely unreactive, inert and flame retardant, with exceptional mechanical properties (e.g., Kevlar, Vectran). LCEs are promising candidates for manufacturing artificial muscles, or microrobots due to their actuation properties. From PDLCs smart films can be produced that change their transparency by the application of external (primarily electric) field. Using flexible bounding substrates instead of glass plates, one can obtain foldable, rewritable electronic paper.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/81488

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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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