

Special Issue

Molecular Simulations for Structure-Property Relationships in Novel Polymeric Materials

Message from the Guest Editor

Due to the depletion of fossil resources and hence the rising price, and environmental problems, new novel monomers need to be designed and tested to replace bisphenol derivatives that are toxic and environmentally unfriendly. Using novel polymers has imparted multifunctionality to composite materials. Novel polymer composites combine properties such as ionic conductivity, thermal conductivity and hydrophilicity in addition to promising thermo-mechanical properties. For example, interpenetrating polymer networks (IPNs) that are defined as a combination of at least two polymers that form a network can be promising host matrix for polymer composites because each network component will impart different properties or contribute to multiple properties of the resultant composite. The aim of this Special Issue is to highlight the importance of using molecular simulation techniques in modelling, testing and tuning novel and/or bio-based polymeric materials and their composites for various applications in the aerospace, automotive and energy industries.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2021)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/71021

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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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