polymers

an Open Access Journal by MDPI

IMPACT FACTOR 4.7

Indexed in: PubMed

CITESCORE 8.0

Molecular Dynamics Simulation of Polymeric Materials

Guest Editors:

Dr. Alejandro Heredia Barbero
Labortatorio de Evolución Química, Departamento de Química de Radiaciones y Radioquímica, Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México, Circuito Exterior s/n, Ciudad Universitaria, Alc. Coyoacán Apdo. Post. 70-543, C.P. 04510, Ciudad de México, Mexico

Dr. Ana Guadalupe Rodríguez Hernández
Laboratorio de Bionanotecnología, Centro de Nanociencias y Nanotecnología, Universidad Nacional Autónoma de México, Km 107 Carretera Tijuana-Ensenada, C.P. 22860, Ensenada, Mexico

Deadline for manuscript submissions:
25 September 2024

Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we will explore polymeric materials' structure, electrical properties, environmental compatibility, biotechnological and pharmaceutical uses, and potential as organic storage media using molecular dynamics. These molecular dynamics simulations of polymeric materials enable the prediction of various properties. It gives us the opportunity not only to understand the nanoscale properties of different types of polymers, but also to apply these different high-performance features in our daily lives. In the case of polymers, it is possible to coordinate them with different surfaces to improve the performance of solar cells and storage devices, such as computers and power generation. Other important aspects of molecular dynamics simulations in polymers include the self-assembly and oligomerization of chiral monomers. From there, we move to the fundamental aspect of polymer synthesis from the perspective of complex systems. In this volume, we will discuss polymer characterization and performance aspects in molecular computer simulations.

polymers

IMPACT FACTOR 4.7 | Indexed in: PubMed | CITESCORE 8.0

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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 5.0.

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.
Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
𝕏@Polymers_MDPI