

## Special Issue

# Mechanical and Dynamic Characteristics of Polymers and Polymer Composites

### Message from the Guest Editor

Polymers exhibit substantial internal degrees of freedom and pronounced multiscale behavior, complicating our understanding of the mechanisms behind their thermomechanical and rheological properties. This complexity is further amplified when polymers are reinforced, as seen in Carbon-Fiber-Reinforced Polymers (CFRPs). This Special Issue aims to present the latest insights into the correlation between the structure and properties of polymers and polymer composites. We invite submissions on studies related to polymer synthesis and molding characteristics, the measurement of thermo-mechanical properties of structural materials, and research involving numerical simulations such as molecular dynamics and finite element methods.

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### Guest Editor

Dr. Yutaka Oya

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### Deadline for manuscript submissions

closed (25 February 2026)



## Polymers

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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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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