Special Issue

Polymer-Based Lubricating Materials

Message from the Guest Editor

Lubrication is considered one of the most efficient methods to reduce friction and wear in mechanical equipment and human body. This Special Issue interest includes but is not limited to:

- Interfacial adsorption, rheology, and lubrication of natural polymer and their derivatives
- Design and synthesis of polymers for lubrication and wear protection
- Polymer-based lubricating, antibacterial, antifouling, and slippery coatings for surface modification
- Bioinspired hydrogel systems for lubrication, such as cartilage-mimicking hydrogel
- Stimulus-responsive polymers for smart lubrication, such as the responsive polymers for controllable lubrication and adhesion.

Keywords:

- Hyaluronic Acid; Natural And Synthetic Polymers
- Polymer Brushes;Surface Functionalization
- Hydrogel; Friction; Wear
- Aqueous Lubrication; Bio-Lubrication; Self-Lubrication

An early-bird discount will be available for submissions before August 2022. Please contact SI editor shelly.gu@mdpi.com for details.

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2023)

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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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