



Polymer-Based Lubricating Materials

Guest Editor:

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Deadline for manuscript
submissions:

closed (15 September 2023)

Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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