



Tribology of Polymers

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Message from the Guest Editors

This Special Issue focuses on the latest progress in the tribology of polymers. The properties of polymers change with time during the tribological process, resulting in problems. For example, the ultra-high molecular-weight polyester in the artificial joint system produces wear particles after extended use and induces osteolysis. Wear in metals and ceramics can be reduced by external lubricants, but external lubricants often cause swelling in polymers. In the human body, not only the body fluid influences the lubrication of polymers but also the biological components.

We aim to deliver recent the progress in the tribology of synthetic or natural polymers. We also aim to present potential mechanisms for reducing the friction, decreasing the wear, and increasing the lubrication of polymers. This Special Issue not only provides a better understanding of changes in the properties of polymers with time but also provides potential solutions for current problems of polymers during tribological processes.





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