Special Issue

Friction and Dynamic Behaviors of Thin Films

Message from the Guest Editors

he reduction in friction between two contact surfaces with relative motion is an established topic in many mechanical systems. Thin films are widely used in mechanical systems in harsh environments, especially in the space environment, and many studies are performed on the friction behaviors of thin films. This Special Issue intends to address the latest progress in the field of thin films for metals. Original contributions related to thin film materials and their friction properties, mechanical characterization, and applications are welcome. The environmental compatibility of thin films should be regarded as one of the most important advantages to meet the requirements of friction reduction in the friction process. The topics of interest for this Special Issue include (but are not restricted to):

- Friction of thin films at the nano-, micro- and macro-scale;
- Molecular dynamics simulation of the friction process;
- Crystal structure evolution of thin films;
- Thermodynamic properties of thin films;
- Mechanical properties under space environment;
- Any other friction-related dynamics.

Guest Editors

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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