Special Issue

Carbon Nanomaterials as Promising Solid Lubricants to Tailor Friction and Wear

Message from the Guest Editors

This Special Issue exclusively aims at the latest developments in the field of carbon nanomaterials used as solid lubricants under dry sliding conditions. In this context, the range of carbon nanomaterials includes carbon black, graphene and its derivatives, carbon nanotubes, carbon onions, nanodiamonds, and many others. Furthermore, advanced materials characterization enabling a more detailed understanding of the underlying mechanisms to reduce friction and wear are highly welcome in this Special Issue. Moreover, numerical work based upon different approaches and a cross-correlation to experimental findings also fall within the scope of this Special Issue. Principal topics include, but are not limited to:

- Carbon nanomaterials
- Solid lubricants
- Dry friction
- Friction and wear mechanisms
- Advanced materials characterization

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Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. Lubricants invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in Lubricants.

Editor-in-Chief

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