

Special Issue

Carbon Nano-materials for Controlling Friction and Wear

Message from the Guest Editors

This Special Issue aims at reporting the latest developments in the field of carbon nano-materials used as lubricants. The range of carbon nano-materials includes carbon black, graphene and its derivatives, carbon nanotubes, carbon onions, nanodiamonds, amorphous carbon and diamond-like carbon (DLC). These materials can be applied either as protective coatings, as lubricant additives, or as reinforcing phases in self-lubricating systems to improve the resulting friction and wear performance. Additionally, advanced characterization allowing for a thorough understanding of the acting mechanisms responsible for reduction in friction and wear are highly welcome in this Special Issue. Numerical and analytical work based on alternative approaches and a cross-correlation to experimental findings also fall into the scope of this Special Issue.

Guest Editors

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About the Journal

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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