Special Issue

Tribology of Smart Materials

Message from the Guest Editor

This Special Issue "Tribology of Smart Materials" includes applications under tribological loading and the wear behaviour of smart materials. In some cases, reinforcements are added to smart materials to improve structural and functional properties. Smart materials can be nano- or microstructured or can obtain special surface patterns. Topographic and structural features may effect special functions in addition to mere physical, chemical, or electrical effects. Smart materials use physical, chemical, and electrical principles for producing signals. Other substances often embed smart materials for protection and signal processing. In that case, system tribology and durability matters. Signal production by smart materials and material combinations are typical for biological processes as well. It is strongly encouraged to submit manuscripts about smart materials in biology and their tribological behaviour as well as the tribological behaviour of biomimetic concepts in mechanical engineering, electronics, and microelectronics.

Guest Editor

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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.*

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