Special Issue

Recent Research in Nanolubricants

Message from the Guest Editor

Nanoparticles have shown the remarkable lubricating properties, viz., friction-reducing and anti-wear, of certain nanoparticles. This makes them potential candidates for replacing the lubrication additives currently used in automobile lubricants. Among the nanoparticles with proven tribological performance are carbon nanotubes, carbon onions, nanodiamonds, graphene, BN/ZrO2/TiO2 nanoparticles, the Inorganic Fullerene-like (IF) metal disulfides (IF-MoS2, IF-WS2) nanoparticle. All these nanoparticles have been the subject of detailed investigation these last past years and many key issues have been tackled. This Special Issue is designed to showcase some of the most exciting recent findings and future trends in the field of the research in nanoparticles/nanolubricants. Contributions are welcome from researchers working in the field of tribology and lubrication science. Principal topics include, but are not limited to:

- Nanoparticles
- Lubricant additives
- Boundary lubrication
- Friction modifiers
- Anti-wear additives
- Nanolubricants
- In Situ characterization

Guest Editor

Prof. Dr. Fabrice Dassenoy
Laboratory of Tribology and System Dynamics, Ecole Centrale de Lyon, University Lyon, ENISE, ENTPE, CNRS UMR5513, 69134 Ecully, France

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Lubricants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
lubricants@mdpi.com

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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

Prof. Dr. Homer Rahnejat
School of Engineering, University of Lancahire, Preston PR1 2HE, UK

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