lubricants

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Carbon Nano-materials for Controlling Friction and Wear

Guest Editors:

Dr. Sebastian Suarez
Department of Materials Science, Saarland University, 66123 Saarbrücken, Germany

Dr. Philipp Grützmacher
Tribology Research Division, Institute of Engineering Design and Product Development, Vienna University of Technology, 1060 Vienna, Austria

Prof. Dr. Andreas Rosenkranz
Department of Chemical Engineering, Biotechnology and Materials, Universidad de Chile, Santiago de Chile, Chile

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Message from the Guest Editors

Dear Colleagues,

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.