



Tribology of High-Performance Polymer Composites in Extreme Conditions

Guest Editor:

Prof. Nazanin Emami

Department of Engineering
Science and Mathematics, Luleå
University of Technology, SE-971
87 Luleå, Sweden

Nazanin.Emami@ltu.se

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Message from the Guest Editor

Dear Colleagues,

Multifunctional, multiscale and tailor-made thermoplastic polymer composites, to be used in extreme tribological conditions, are gaining tremendous attention. The focus here will be on the design and development of materials to improve machinery/components' friction, wear and lubrication in extreme/challenging conditions (including temperature, environments and tribological conditions).

This Special Issue will report the current research and future trends in friction, wear and lubricant (dry condition and/or oil-free lubrication) of multifunctional and multiscale high performance self-lubricating thermoplastic composites in life science, automotive, space engineering, wind turbine, and hydropower applications. Topics of interest generally include (but not limited to):

- Thermoplastics
- Polymer composites
- Self-lubricating/solid lubrication
- Lubricant additives
- Water lubricant
- Coating
- Friction
- Wear
- Oil-free lubricants
- Extreme condition



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Special Issue