



## Tribological Properties of 2D Materials and Polymer Composites

Guest Editor:

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### **Message from the Guest Editor**

Tribological science contributions are pivotal for the addressal of emerging challenges in society related to energy consumption, climate change, biomedical devices, etc. In recent years, the development of hybrid materials in polymer and material science industries has advanced in regards to their tribo-performance, and so it would be useful to explore novel avenues.

The aim of the present Special Issue is to focus on strategies to regulate the tribological characteristics of interactive surfaces applicable to energy consumption, emission, sustainability and the mechanical failure of coatings. It also plans to focus on the wide variety of lubricants developed in solid and liquid states through theoretical concepts, experimental results and numerical evaluations, thoroughly discussing the engineering of the composites, mechanisms and underlying physics.

The main topics of interest include, but are not limited to:

- Modulation in tribology through surface treatments;
- Solid-state lubricants;
- Polymers in tribology;
- Nanoscale and microscale tribology;
- Wear, abrasion, fretting, scratch-resistant and adhesion force;
- Tribo-corrosion;
- Biomaterials;
- Emerging coating technology

