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Tribology of Layered and 2D Materials on the Nano- and Micro-Scale

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Deadline for manuscript

closed (31 December 2023)

submissions:

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Message from the Guest Editors

Layered materials (graphite, MoS₂, etc.) and their twodimensional counterparts (2D materials) have demonstrated unique tribological properties, especially on the nano- and micro-scale. The highly anisotropic nature of their mechanical, physical, and chemical properties leads to exotic phenomena different from other systems. They provide us not only with a playground to look into the fundamental mechanisms of tribological processes, but also possible solutions to engineering challenges.

This Special Issue aims at reporting recent advances in research on the tribology of layered materials and 2D materials on the nano- and micro-scale. Contributions in all related areas are greatly welcomed on topics including (but not limited to):

- Novel experimental or theoretical methods;
- Novel tribological phenomena in 2D or layered materials and their mechanisms;
- Tribological behavior of 2D or layered materials in multi-physical fields;
- Tribological behavior of emerging 2D materials;
- Tribological applications of 2D materials;
- Structural superlubricity;
- Dissipation mechanisms and atomistic friction in 2D or layered materials;
- Experiments and theories for electronic friction.





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