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Research on Tribology and Anti-wear Behavior of Metals and Their Alloys

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Deadline for manuscript
submissions:
closed (20 February 2025)

Message from the Guest Editors

Research on the tribology and anti-wear behavior of metals and their alloys is an important area of study in materials science and engineering. Tribology is the science of interacting surfaces in relative motion, including the study of friction, wear, and lubrication. Understanding the anti-wear behavior of metals and alloys is critical for the development of new materials and for improving the efficiency and durability of various mechanical systems.

The research topics that we would like contributors to address include, but are not limited to, the following:

- Tribological behavior of materials and alloys;
- Corrosion and tribocorrosion tests of materials and alloys;
- Anti-wear coating tests;
- The impact of the operating environment on machine part wear;
- The impact of ecological lubricants on wear in friction nodes;
- Material wear processes associated with friction in sliding machine nodes (complex wear processes);
- Mathematical modeling of friction processes;
- Anti-wear of diffusion layer tests;
- Changes in the microstructure caused by the phenomena of corrosion, wear, or tribocorrosion.



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Special Issue



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Message from the Editorial Board

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