

## Special Issue

# Advances in Friction, Wear-Resistant and Solid-Lubricating Properties of Materials

### Message from the Guest Editors

Wear-resistant lubrication are a viable option for reducing friction and wear in a variety of environments. With rapid advances in science and technology, techniques in more modern industrial tribo-systems rely on lubricating materials for high performance, efficiency, and durability, especially to design and produce materials that possess a high wear resistance and a low friction coefficient over wide load, speed, and temperature ranges. However, a lack of understanding of tribological mechanisms hinders the optimization design of lubricating materials and their applications in other fields.

- Friction and wear properties of traditional wear-resistant lubrication materials;
- Lubrication mechanisms of wear-resistant lubrication;
- Research and development of new-type solid-lubricating materials.

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### Guest Editors

Dr. Xiangli Wen

Dr. Bin Wang

Dr. Yanfei Liu

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### Deadline for manuscript submissions

20 November 2025



## Materials

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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