Special Issue

Advances in Wear Behaviour and Tribological Properties of Materials

Message from the Guest Editors

The wear behavior and tribological properties of materials are critical factors in determining the durability and performance of machine components. Advances in this field have shown that the surface characteristics, composition, and mechanical properties of materials significantly influence their frictional and wear resistance. The surface topography, particularly the roughness, hardness, and microstructural features, plays a crucial role in determining how materials respond under sliding, rolling, or abrasive conditions. Recent studies have explored novel materials, coatings, and surface modifications for enhancing wear resistance, particularly in high-stress or extreme environments. This Special Issue will gather innovative research focused on friction and wear behavior to clarify these relationships and drive advancements in tribology. We look forward to receiving your contributions, which will further deepen our understanding of material wear behavior.

Guest Editors

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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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