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

Dr. Qianxi He
Prof. Dr. Abul Fazal M. Arif
Prof. Dr. Ricardo D. Torres

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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Message from the Editorial Board

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.

Editors-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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