

Special Issue

Tribological Behaviors of Metallic Materials and Their Surface Research

Message from the Guest Editor

Friction losses and metal failure caused by wear have a significant impact on the economy and environment. With the recent advances in material characterization techniques, an in-depth understanding of the underlying mechanisms of friction and wear has become accessible. In parallel, the newly gained knowledge has been translated in the development and engineering of new materials, surfaces, and lubricants. This Special Issue on the “Tribological Behaviors of Metallic Materials and Their Surface Research” is intended to serve as a forum covering recent developments in the fields of friction and wear of metallic materials. Potential topics include the multi-scale analysis of friction and wear of metals (both experimental and theoretical) in various environments (UHV, ambient, or corrosive) and under various conditions (i.e., dry or lubricated), the engineering of surfaces by texturing or coating, and the development of new lubricants (solid, oil-based, ionic liquid-based, and green lubricants).

Guest Editor

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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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