Special Issue

Engineering Materials: Friction, Wear and Damage

Message from the Guest Editors

Friction, wear, and damage are integral factors that have a profound impact on the performance, longevity, and safety of numerous engineering systems and applications. However, the intricate nature of their underlying mechanisms and interdependencies pose significant challenges for researchers. To overcome these challenges, advanced modeling techniques, rigorous experimental methods, and innovative material developments are imperative. This Special Issue is dedicated to the latest advancements in the field of "Engineering Materials: Friction, Wear and Damage." We invite submissions encompassing experimental, analytical, or numerical studies, particularly those focused on, but not limited to, the following topics: tribology, lubrication, materials science and engineering, surface engineering, contact mechanics, biomaterials and tribology, fatigue and structural failure, and damage analysis. Through these contributions, we aim to deepen our understanding of these critical phenomena and explore new approaches to mitigate their adverse effects.

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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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