Special Issue

Friction, Corrosion and Protection of Material Surfaces

Message from the Guest Editors

Friction and corrosion, which exist widely in engineering instruments, marine equipment, aerospace, artificial joints and other advanced manufacturing fields, are the key factors that cause damage to material (metallic and non-metallic materials) surfaces and the failure of equipment, which has attracted great attention. Therefore, it is crucial to study and understand the friction and corrosion behaviors of material surfaces to guide engineering applications and reduce safety hazards. Recently, the surface protection of traditional materials, such as laser cladding, nitriding treatments, high-performance films and coatings, etc., has gradually replaced the use of expensive high-performance materials, which has become a research focus. This Special Issue will include the friction and corrosion behaviors of new materials and advanced protective materials, new findings in friction and corrosion mechanisms, advanced protective technologies, and advances in the friction, corrosion and protection of material surfaces. It is my pleasure to invite you to submit original research papers (experiments or simulations), and state-of-the-art reviews for this Special Issue.

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Deadline for manuscript submissions

closed (20 March 2025)

Materials

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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/167916

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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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