

Special Issue

Advanced Functional Materials: Corrosion Inhibition, Wear Resistance and Lubrication

Message from the Guest Editor

Whether in the field of aerospace or marine resource development, more extreme and harsh service environments pose severe challenges to the reliability, stability and safety of high-technology equipment, among which corrosion and wear are regarded as the most common forms of material failure. Advanced functional materials, including intelligent, beta-, bionic and new AI materials, have emerged, offering superior properties compared to traditional coatings. Applying advanced functional materials to the creation of high-technology equipment and exploring their service performance are significant in engineering applications. This Special Issue fosters communication and the sharing of groundbreaking ideas among engineers and scientists globally who are involved in advancing functional-materials-based science and technology.

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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