

Special Issue

Properties and Functional Applications of Lubricating Materials

Message from the Guest Editor

Lubricating materials play a critical role in reducing friction, wear, and energy losses across industrial and automotive systems. This Special Issue aims to explore the fundamental properties, advanced characterization techniques, and emerging functional applications of lubricants, including solid, liquid, and hybrid systems. Topics of interest include tribological performance, thermal stability, surface interactions, and the integration of smart or environmentally friendly lubricants for sustainable engineering solutions. Contributions addressing novel formulations, additive technologies, and their impact on component life and efficiency are highly encouraged. The goal is to provide a platform for researchers and industry professionals to share innovations that enhance reliability, performance, and sustainability in lubrication science.

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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