

Special Issue

Recent Advances in Stainless Steel: Characterization, Properties and Applications

Message from the Guest Editor

The Special Issue titled "Recent Advances in Stainless Steel: Characterization, Properties, and Applications" will focus on the latest innovations in stainless steel, encompassing cutting-edge techniques in microstructural characterization, the enhancement of mechanical properties, and advanced corrosion resistance. This issue will cover a wide range of applications, from aerospace to biomedical industries, emphasizing sustainable manufacturing practices and alloy optimization. Researchers are invited to contribute studies on emerging technologies, such as additive manufacturing and surface modification, and their impact on stainless steel performance in extreme environments. Key Topics:

- Microstructural Characterization;
- Mechanical Properties Enhancement;
- Corrosion Resistance;
- Additive Manufacturing;
- Alloy Development;
- Surface Modification;
- Sustainable Manufacturing;
- Aerospace and Biomedical Applications.

Guest Editor

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About the Journal

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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