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Microstructure and Corrosion Behavior of Metallic Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (31 May 2025)

Message from the Guest Editor

Dear Colleagues,

This Special Issue, "Microstructure and Corrosion Behavior of Metallic Materials", enables the publication of theoretical and experimental studies in corrosion science and engineering for metallic materials. Appropriate submissions include studies that investigate the scientific and/or engineering factors that affect the metallurgy, processing, microstructure, properties, and applications of metallic materials and reports that contribute to the body of knowledge by documenting corrosion science and engineering research.

This Special Issue covers all aspects of metallic materials and their manufacture, including rare earth element, raw materials, alloy casting, extrusion and deformation, surface treatment, joining and machining, simulation and modeling, microstructure evolution, and corrosion properties.

Dr. Dongdong Song
Guest Editor

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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