

Special Issue

Corrosion and Protection of Lightweight Engineering Materials: Mg Alloys, Al Alloys, Ti Alloys and Other Related Metals

Message from the Guest Editors

Magnesium alloy, one of the lightest engineering metals, is highly used in the automotive, aerospace, and electronics industries, as well as the biomedical field. Nowadays, it is also well known that its poor corrosion resistance in most aqueous solutions hinders its industrial applications. Therefore, understanding the different corrosion mechanisms of magnesium alloys in different working environments and developing associated methods for their corrosion protection is imperative. The aim of this Special Issue is to provide an open platform for metallurgists, materials scientists, and engineers to share and disseminate recent research advances on the corrosion and protection of magnesium alloys. The potential topics of this Special Issue are quite diverse, encompassing alloying, processing, surface treatment, and electrochemical protection. It welcomes both experimental and theoretical studies and accepts original research, as well as review, articles.

Guest Editors

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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