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Corrosion of Nonferrous Metal Alloys

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editors

Dear colleagues,

Nonferrous metal alloys with a matrix of aluminum, copper, magnesium, titanium, and other metals have been widely used in many industries. In most cases, the failure of these nonferrous metal alloys is attributed to their corrosion. Some nonferrous metal alloys with high corrosion resistance are currently being developed, and the corresponding corrosion behavior and mechanism become of importance regarding application. For this Special Issue, we welcome submissions on some main studies being carried out in this field, which are focused on the design of novel nonferrous metal alloys with good corrosion resistance, the corrosion behavior and mechanism of nonferrous metal alloys in different environments, methods for the protection of nonferrous metal alloys, and surface coating technologies for nonferrous metal alloys. Articles describing other directions within the field of the production of nonferrous metal alloys with good corrosion resistance are also welcome.

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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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