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Advances in the Oxidation and Corrosion Behavior of Alloys

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Message from the Guest Editors

Dear Colleagues,

The oxidation and corrosion behaviour of alloys limits the performance and lives of engineering components and will remain crucial in the selection of alloys for applications where these properties are pivotal. Apart from well-established applications and platforms, new technologies that require the use of alloys in harsher environments are being developed by the day. An example is in fuel cell systems where metallic components are exposed to very aggressive dual-atmosphere conditions, yet these alloys must perform optimally and meet the required service lives. This calls for more advanced and detailed research works into the oxidation and corrosion of alloys as it is imperative to further the understanding of the degradation behaviour of alloys and develop unique solutions well-suited for their use in different applications.

This Special Issue welcomes the submission of research and review articles on the oxidation and corrosion behaviour of alloys. The topics of interest include:

- dual-atmosphere corrosion
- breakaway corrosion
- high-temperature oxidation
- oxide growth kinetics
- atmospheric corrosion
- corrosion protection
- surface treatment
- coatings

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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