

Special Issue

Corrosion Phenomena in Metals

Message from the Guest Editors

Crystals is launching a Special Issue on “Corrosion Phenomena in Metals” to highlight scientific advances in fundamental and applied research on the degradation of metallic materials. The topics of interest include, but are not limited to:

- Stress corrosion cracking and environment-assisted cracking;

- Localized corrosion that initiates by means of pitting or intergranular corrosion;

- Influence of corrosion inhibitor in improving the surface resistance or expediting repassivation;

- Corrosion mechanisms that explore the science behind the dissolution initiation and impedance;

- Microstructure/Nanostructure changes in metals influencing corrosion behavior or corrosion rate;

- Relationship between the electrochemical and mechanical properties, and their degradation due to corrosion;

- High-temperature oxidation and hot corrosion;

- Emerging corrosion-resistant material processing and design approaches, such as high-entropy alloys, additively manufactured alloys, and far-from-equilibrium microstructures.

Guest Editors

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Deadline for manuscript submissions

closed (20 June 2025)



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About the Journal

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.

Editor-in-Chief

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