

Special Issue

Surface Treatments to Improve the Corrosion Resistance of Metals

Message from the Guest Editor

Today the variety of surface treatments applied to metallic materials to improve their corrosion resistance is so wide to offer an almost unlimited number of possibilities; the best known are the *coatings*, which thanks to the combination of applied material (metallic, ceramic or polymeric), thickness (from few nanometers of the conversion layers to hundreds of microns of thick coatings) and technology used (thermal, chemical, physical or electrochemical) offer a wide range of possibilities. Besides to coatings, diffusion treatments, passivation and surface functionalization are also possible, making the panorama extremely varied. In this Special Issue, we wish to cover the most recent advances in all these kind of surface treatments developed to improve the corrosion resistance of metals, by hosting a mix of original research articles and short critical reviews.

Guest Editor

Dr. Roberto Giovanardi

Department of Engineering 'Enzo Ferrari', University of Modena and Reggio Emilia, Via Vivarelli 10, 41125 Modena, Italy

Deadline for manuscript submissions

closed (30 April 2024)



Surfaces

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.4



mdpi.com/si/171930

Surfaces
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
surfaces@mdpi.com

[mdpi.com/journal/
surfaces](https://mdpi.com/journal/surfaces)





Surfaces

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.4



[mdpi.com/journal/
surfaces](https://mdpi.com/journal/surfaces)



About the Journal

Message from the Editor-in-Chief

Surfaces and interfaces are ubiquitous, and their relevance in Chemistry, Physics, Catalysis, Materials Science & Engineering, Nanoscience, Biology and Nanomedicine is nowadays well acknowledged. Similarly, surfaces cannot be neglected when targeting applications in many strategic fields, such as sensors, energy conversion and storage, environmental and food science, and medical devices.

Surfaces is a new Open Access journal that will provide rapid publication of scholarly articles on studies related to surfaces and interfaces. Its mission is to publish cutting edge articles and conference proceedings and organizing special issues to highlight outstanding research on specific topics, encouraging the application of a rigorous Surface Science-based approach to many complex interesting phenomena and breaking boundaries among different disciplines.

Editor-in-Chief

Prof. Dr. Gaetano Granozzi

Department of Chemical Science, Università degli Studi di Padova,
Padua, Italy

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

CiteScore - Q2 (Materials Science (miscellaneous))