

## Special Issue

# Research Progress in Atmospheric Corrosion and Coating Deterioration—2nd Edition

### Message from the Guest Editor

Because it is so prevalent, atmospheric corrosion is a large contributor to the total economic losses due to corrosion; thus, understanding the causes of, and how to prevent, atmospheric corrosion has been the subject of many recent studies. In atmospheric corrosion scenarios, because of the limited ability to provide cathodic protection, coatings and coating systems are frequently the first line of defense against corrosion for metals and alloys. However, exposure to the service environment causes aging and deterioration in the protective coatings themselves. The need to improve our understanding of atmospheric corrosion across changing environmental conditions that vary in terms of the corrosivity of the environment and the stress state of the structure, as well as the need to improve our understanding of organic and inorganic coating degradation in these exposure environments, is driving new advances in experimental activities and modeling capabilities.

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### Guest Editor

Dr. Steven A. Policastro

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### Deadline for manuscript submissions

31 December 2026



## Coatings

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## About the Journal

### 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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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