

Special Issue

Heritage Conservation and Restoration: Surface Treatments, Coatings and Sustainable Approaches

Message from the Guest Editor

Surface and interface analysis are fundamental in cultural heritage (CH) in order to understand the mechanisms that underlie alterations and consequently to find the most suitable treatment to avoid them. The latter issue is particularly relevant in CH because surface treatments are commonly applied to different kinds of artifacts and materials to protect, restore, preserve, and recover aesthetic characteristics. The Special Issue will serve as a forum for papers on the following topics:

- Theoretical and experimental research, knowledge, and new ideas in CH surface and interface analysis to help us understand protective and preventive coating mechanisms.
- Recent developments in multi-functional organic, inorganic, and hybrid coatings.
- Experiments on coating performance with exposure to high temperatures, high stress, and other extreme environmental conditions.
- Understanding the degradation mechanisms of coatings through different spectroscopic techniques combined with mechanical tests.
- Computer modeling or simulations to predict coating properties, performance, durability, and reliability in service environments.

Guest Editor

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Deadline for manuscript submissions

10 July 2026



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/254283

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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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