

Special Issue

Surface Engineering in the Diagnostics, Conservation and Restoration of Cultural Heritage

Message from the Guest Editors

The current trends of research in the Heritage Science field include the development of nanomaterials and hybrid and multifunctional coatings that improve the surface properties, as well as eco-friendly and sustainable materials highlighting the importance of a balance between the effectiveness of treatments and the environmental and conservation requirements under a cross-field approach taking advantage of other technologies. The scope of this Special Issue includes, but is not limited to, the following topics:

- Latest developments of analytical methods, such as imaging techniques, scanning, and other sensing techniques for the characterization of surface morphology, properties, and defects, with an emphasis on the diagnostics of cultural heritage.
- Innovation and performance evaluation of coatings and other surface treatments: nanostructured materials and polymers.
- The development of non-toxic, sustainable materials, providing safer alternatives for cultural heritage protection with long-term efficacy and reduced environmental impact.
- Innovative cleaning systems with tailored properties, such as solvent release, and compatibility with cultural heritage materials.

Guest Editors

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Deadline for manuscript submissions

15 August 2025



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/220063

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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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