



Conservation Tools, Protocols and Treatments on Painted Surfaces, Metal Leaves and Finishes in Cultural Heritage

Guest Editor:

Dr. Nervo Marco

Fondazione Centro per la
Conservazione ed il Restauro dei
Beni Culturali “La Venaria Reale”,
10078 Venaria Reale TO, Italy

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Message from the Guest Editor

Dear Colleagues,

Conservation of painted surfaces, metal leaves, and finishes requires a deep knowledge of both the materials themselves and the supports and the interaction phenomena occurring among them. Superficial treatments, operations, and materials adopted during the conservation intervention can modify the complex system of existing interactions. Therefore, it is fundamental to predict possible induced changes of the chemical-physical properties of the systems.

This Special Issue aims at contributing to the definition of the state-of-the-art in the approach to conservation problems of painted surfaces, metal leaves, and finishes.

In particular, the topic of interest includes but is not limited to:

- Methodological approaches for the conservation treatments of the painted surfaces, metal leaves, and finishes;
- Analytical tools and protocols for the validation of the treatment efficacy and recognizability;
- Analytical tools for the characterization of surface materials and their decay processes;
- New materials and treatments.





Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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