

Special Issue

Biological Colonization of Cultural Heritage. Emerging Trends in the Protection of Cultural Properties—Novel Control Strategies and Preventive Approaches

Message from the Guest Editors

The durability of the world's cultural heritage depends on many factors, mostly related to the surrounding environment with threats frequently coming from climatic conditions, climate change, air pollution, and biological colonization. This Special Issue aims to publish outstanding papers on novel advances in products, methods, and techniques for the prevention and control of organisms involved in the biodeterioration of cultural heritage. The application of ecofriendly processes that do not require the use of harmful materials has recently received growing consideration. The evaluation of their effectiveness, environmental impact, long-term effect, and harmlessness toward substrates have been the topics of many recent studies. Toxicity and environmental impact are important causes for concern today in the selection of products such as biocides. This Issue will also focus on analytical techniques suitable to assess the efficacy of control methods. Several diagnostic tools have been developed for in situ monitoring of the performance of methods and products and for the detection of possible risks, thus facilitating maintenance and management decisions.

Guest Editors

Dr. Daniela Pinna

Department of Chemistry "Giacomo Ciamician", Alma Mater Studiorum Università di Bologna, 40126 Bologna, Italy

Prof. Dr. Beata Gutarowska

Department of Environmental Biotechnology, Faculty of Biotechnology and Food Sciences, Lodz University of Technology, 90-530 Łódź, Poland

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

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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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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

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