



Surface Biotreatment of Building Materials

Guest Editors:

Dr. Paulina Faria

Department of Civil Engineering,
NOVA School of Science and
Technology, NOVA University of
Lisboa, 2829-516 Caparica,
Portugal

Dr. Julia García-González

Department of Agricultural
Engineering and Sciences,
University of Leon, 24071 Leon,
Spain

Dr. Telma Ribeiro

Escola Superior Gallaecia, Ensino
Superior Universitário, 4920-275
Vila Nova de Cerveira, Portugal

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Message from the Guest Editors

Dear Colleagues,

The surfaces of building materials are subject to weathering, dirt, and abrasion by common use. To amplify the service life of exposed building materials, coatings and surface treatments compatible to the substrate can be applied. Bio-based materials that can be applied directly or used to formulate bioproducts can be remarkably diverse. Natural oils, such as linseed oil, waxes, and other bio-based materials, can be applied directly to treat building material surfaces. This Special Issue will serve as a forum for articles on the following concepts:

State-of-the-art vernacular and innovative bioproducts and biotreatments applied on building material surfaces;

Specific test methods to assess bioproduct and biotreatment efficiency, surface compatibility, and durability in laboratory and on-site conditions;

Experimental results of simple to multifunctional biotreatments, exposed to conditions ranging from common to extreme;

Environmental assessment of innovative bioproducts for building surfaces, namely in comparison to inorganic ones.





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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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