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Biological Coatings for Buildings

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Message from the Guest Editors

Dear Colleagues,

Due to the enormous energy and water demands from the rising number of buildings today, the development of biological coatings for buildings, which mainly reduce energy and water consumption, has become very attractive to government, industries, and scientists worldwide. For example, green roofs, multilayer coatings used on top of buildings, not only have the potential of increasing a building's thermal inertia but also to capture rainwater for reuse, this technology also can reduce the urban heat island effect, urban run-off water volumes, and noise and air pollution. However, in spite of the described benefits, the use of these technologies is still limited due to high investment and maintenance costs, and also to the lack of detailed technical information on the proper design and construction of these building coatings. Therefore, this Special Issue aims to provide better comparisons and assessments of the application potentials of different biological coating technologies on buildings.

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Guest Editors

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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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