



State-of-the-Art on Coatings Research for Biomedical and Environmental Applications

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Message from the Guest Editors

We aimed to have a special issue (SI) on the recent advances in coating technologies for environmental and biomedical applications. Our primary focus is on the contribution of advanced materials and technologies to be used for the coating of various organic and inorganic substrates. The effect of surface roughness and topography, as well as surface chemistry of substrates on the coating quality, is an important aspect of this SI. Also, environmentally friendly coatings to move towards a sustainable future industry with zero carbon emissions will be another aspect of this special issue. There is also an interest in bioinspired coatings which provides many biomedical and environmental applications.

Keywords:

- coating
- bioinspiration
- surface alteration
- surface chemistry
- surface morphology





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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.

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