



Fabrication and Properties of Bio-Coatings and Their Applications

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Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

Bio-coatings are coatings with favorable biocompatibility or bioactivity, and their targeted application is in the biomedical field. This Special Issue will serve as a forum for papers covering the following themes:

- Exploration of optimal bio-coatings' fabrication techniques.
- Organic, inorganic, or composite bio-coatings manufactured by chemical or physical vapour deposition, laser cladding, plasma deposition, thermal spraying, anodization, sol-gel method, 3D printing, etc.
- Novel characterization methods applied to assess the bio-coating system.
- Property measurement and evaluation of the bio-coatings in the proposed application.
- Reliability or failure behaviour and their failure mechanism of bio-coatings under specific service environment.
- Machine learning predicting and verifying the relationship between the fabrication process and bio-coatings' properties.
- Biological characterization on the coating system.
- Evaluation of biocompatibility, bioactivity, and biotribological properties of the coating.
- Assessment of the antibacterial coatings.

We look forward to receiving your contributions.





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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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