

Special Issue

Functional Coatings for Biomedical Applications

Message from the Guest Editors

In the field of biomedical advancements and material engineering, functional coatings play a crucial role in furthering innovation. This Special Issue is dedicated to exploring diverse fabrication options and analyses in coatings, highlighting their potential multifaceted applications in the biomedical field. We invite contributions that explore multifaceted applications of coatings in the biomedical arena. From nanotechnology-driven breakthroughs to biomimetic designs inspired by nature. Submissions are encouraged to cover a diverse array of topics, including, but not limited to:

- Drug delivery systems—investigating novel coating strategies for targeted and controlled drug delivery, enhancing therapeutic efficacy
- Implant coatings—designed to improve the biocompatibility and longevity of implants, facilitating seamless integration with the human body and promoting tissue regeneration
- Bioactive coatings—that stimulate specific cellular responses, fostering tissue growth and regeneration for regenerative medicine applications
- Durability, scalability, and environmental sustainability of functional coatings in biomedical settings

Guest Editors

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About the Journal

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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