

Special Issue

Advanced Nanocomposite Coatings for Biomedical Engineering

Message from the Guest Editors

Nanocomposite coatings are vital for a wide range of biomedical engineering applications as they can mitigate, transform, and modulate the bio-interface formed between the biomedical device and the targeted tissue. A good bio-interface can maintain the proper functions of the biomedical device, enhance the designated functions of the biomedical device, and provide customized functions depending on the final applications. This Special Issue aims to cover the material design, property characterization, processing, bio-interface, and biomedical applications of advanced nanocomposite coatings for biomedical engineering. The themes of this Special Issue may include but are not limited to the following:

- Antibacterial coatings with superwettability;
- Nanostructured coatings for tissue-electronic interfaces;
- Multifunctional hybrid hydrogel coatings;
- Nanoparticle coatings for photothermal therapy;
- Conductive polymer coatings for neural interfacing;
- Lipid nanoparticles and microcapsules for mRNA therapy.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2024)



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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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