



Advanced Coatings for Bio-Applications–Antibacterial Surfaces

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Message from the Guest Editors

Bacterial infections, in particular those derived from random contaminations and connected with the implantation of medical devices, continue to be a major problem at present and account for an increasing number of deaths. Moreover, tackling skin and soft tissue infections, including chronic wounds, especially caused by methicillin-resistant strains of *Staphylococcus aureus* (MRSA) and antibiotic-resistant *Pseudomonas aeruginosa*, is still a challenge for today's developed medicine. The dramatically increasing bacteria resistance has been recognized as one of the greatest health threats of the beginning of the 21st century.

Thus, the development of antimicrobial resistance, mainly caused by the overuse of antibiotics, their high target specificity, and development of difficult-to-remove biofilm, force us to look for alternatives to tackle life-threatening infections initiated mainly by antibiotic-resistant bacteria. In view of these, we invite you to present your valuable research focused on innovative functional bioactive coatings to prevent biofilm-forming antibiotic-resistant bacterial infections in this Special Issue.





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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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