



Recent Developments in Antibacterial and/or Antifouling Surfaces

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Message from the Guest Editors

Bacterial surface contamination and further biofilm formation are considered major concerns in healthcare worldwide, as they may play a crucial role in disease transmission. Medical device-related infections such as surgical site infections, urinary tract infections, ventilator-associated pneumonia, and orthopedic implant-associated infections are supposed to be one of the main post-surgical complications and cause high rates of morbidity and mortality. Similarly, in the food industry, food contact surfaces are an important potential source of bacterial colonization, affecting the safety and quality of food products.

The aim of this Special Issue is to present recent developments in antibacterial coatings, through original research papers and review/feature articles.

In particular, topics of interest include, but are not limited to the following:

- Contact-killing coatings;
- Antifouling/repelling coatings;
- Release-based antibacterial coatings;
- Smart antibacterial coatings;
- Nanocomposites antibacterial coatings;
- Nano and micro-structured surface with antibacterial properties.





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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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