Special Issue

Antibacterial Surfaces, Thin Films, and Nanostructured Coatings

Message from the Guest Editor

Antibacterial surfaces can play a key role in everyday applications, spanning from biomedical purposes (medical devices, human implants, etc.) to usages for food and beverages (e.g., packaging). Such surfaces are fundamental to prevent the occurrence and diffusion of clinical infections and foodborne diseases, or to preserve the quality of the packaged content.

Different approaches can be pursued to confer antimicrobial properties to the surface of a material, like the incorporation of antibacterial agents within the material surface or their deposition as coating films. New and ever more efficient materials have been experimented with and effectively used in the aforementioned applications.

Together with the antimicrobial activity, further essential aspects should be considered when dealing with these applications, namely the enhancement of other materials properties, as well as safety issues and even environmental aspects. Secondly, a possible influence on human health should be taken into account. Finally, it is important to consider the usage of antimicrobial surfaces in conjunction with eco-friendly bioplastics.

Guest Editor

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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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