



Functional Coatings: From Synthesis Challenges to Antimicrobial Applications

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Message from the Guest Editors

This Special Issue aims to present brief correspondence, research papers, and review articles addressing problems and recent developments in surface modifications, namely coatings which incorporate different active agents (polymers, polysaccharides, essential oils, plant extracts, antimicrobial peptides, etc.), with antibacterial and antimicrobial applications.

Of special interest for this Special Issue are the techniques (including but not limited to spin-coating, dip-coating, atomic layer deposition, and chemical or physical vapor deposition) applied for obtaining these functional coatings.

Topics of interest include:

- Coatings for specific microorganisms
- Films/coatings to reduce microbial contamination
- Organic coatings
- Nanocomposite films
- Natural materials in antimicrobial coatings





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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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