

Special Issue

Advanced Antimicrobial and Bioactive Materials and Coatings

Message from the Guest Editor

Bio-based materials, such as natural herb materials, show promise as substitutes for materials from non-renewable sources, replacing traditional petroleum polymers in several industrial sectors. Natural herb materials are being used as coatings and in combination with further treatments and functional coatings that may reinforce their bioresponsive properties or provide additional properties, such as antimicrobial, antioxidant, anti-inflammatory, and pesticide-repelling or insecticidal activity. This Special Issue aims to cover all aspects of the development of natural compounds that have an antimicrobial or insecticidal effect as a natural extract coating. We invite authors to contribute original research articles addressing significant issues and contributing towards the development of new concepts, methodologies, applications, trends, and knowledge in this field. Topics of interest include, but are not limited to:

- natural herb extracts;
- bioactive coatings and materials;
- interface chemistry;
- utilization of biological resources;
- purification and separation of bioactive substances;
- coating of paper/ textile surface.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)



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About the Journal

Message from the Editor-in-Chief

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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