



Natural Materials in Functional Coatings

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Message from the Guest Editors

Dear Colleagues,

The Special Issue on “Natural Materials in Functional Coatings” would like to inspire researchers all over the world to contribute with their most exciting results in the area of natural materials (extracts, essential oils, individual compounds isolated from natural sources) for the development of functional coatings. The term “functional coatings” will cover both their intrinsic functionality (such as, for example, superhydrophobicity, antimicrobial, antifouling, antireflective radar absorbing properties, and self-stratification, conductivity) and stimuli responsive functionality (such as thermochromic, color shifting, touch sensitive, corrosion- and explosive-resistant, self-healing, shape-memory materials, etc.).

Original research and review papers are welcomed in the following topics:

Natural materials in antimicrobial coatings;

Natural materials used in coatings for increasing the commercial products' shelf-life;

Natural materials for the development of protective coatings in cultural heritage applications;

Natural materials for other functional 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.

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