

Special Issue

Functional Coatings for Textile Applications

Message from the Guest Editors

Currently, due to the increasing growth competition textile materials cannot be restricted to clothes, linen, tablecloth, and curtains, but they have to also be regarded as high-tech products that, in addition to the traditional clothing industry, find application in many technological fields, like construction, agriculture, automotive, aerospace, and medicine. In this regard, recently, both the surface activation and deposition of thin functional coatings have been investigated in order to confer different properties to textiles. The scope of this Special Issue on textile coatings is to focus on the new advanced textile active coatings that envisage extending the functionality of conventional textiles. In particular, the topics of interest include, but are not limited to:

- Memory polymer coatings for smart textiles;
- Self-cleaning processes on textile surfaces;
- Self-healing textile coatings;
- Smart breathable coatings for textiles;
- Conductive polymer coatings;
- Photonic materials for textile coatings;
- Smart medical textiles and antimicrobial textile coatings;
- Coatings for protection and comfort in clothing and sportswear;
- Biomimetic textile coatings.

Guest Editors

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About the Journal

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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