



Advances in Coated Fabrics and Textiles

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Message from the Guest Editors

Dear Colleagues,

Coated fabrics and textiles play a vital role in everyday life, offering unique styles, appearances, and special functions. The market has seen a rise in functional coated fabrics and textiles in recent years, expanding their uses and output annually. Textile coating technology is becoming increasingly mature, main coating agents are constantly improving, and advanced processing equipment is becoming more intelligent.

This special issue invites original research articles and reviews on the design, manufacture, characterization, and application of coated fabrics and textiles. Areas of study may include (but are not limited to) the following:

1. Fire-retardant textile and implementation of fire-retardant formulations;
2. Stain-resistant, self-cleaning coated textiles and fabrics;
3. Antimicrobial coated textiles and fabrics;
4. Conductive coated textiles and fabrics and their electrochemical applications;
5. Radiation-resistant, wearable e-textiles;
6. Hydrophobic and hydrophilic fabrics;
7. Coated textiles and fabrics in medical applications;
8. Test methods for different textile coatings.

We look forward to your contributions in these research areas.





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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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