

Special Issue

Sustainable Coatings for Functional Textile and Packaging Materials

Message from the Guest Editors

Textiles and packaging are considered highly polluting materials, not only during their production but also after their effective use. To date, textiles and packaging are used in many advanced and functional applications, i.e., oil-water separation, durable flame-retardant textiles, sound insulation materials, biocomposites for packaging, indoor decontamination, antibacterial textiles, multifunctional textiles, wrinkle-resistant textiles, breathable textiles, textiles with anti-UV properties, etc. There is huge potential to develop these textile and packaging materials sustainably. One of the most effective and economical ways to impart functionality to a textile or packaging material is to coat its surface. The surface coating of textile and packaging materials makes them functional while retaining their basic properties of fineness and fitness. This Special issue welcomes the topics of sustainable coating for textiles and packaging for:

Indoor decontamination;
Antibacterial or anti-odor;
Self-cleaning;
Photocatalytic oxidation;
Food packaging;
Water repellent coatings;
Oil-water separation;
Flame retardant;
Anti-UV;
Self-healing.

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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