

Special Issue

Functional and Sustainable Bio-Based Coatings for Textile Materials

Message from the Guest Editors

We are pleased to invite submissions to this Special Issue on sustainable coating technologies for textiles. Growing environmental concerns, limited natural resources, and the need to reduce reliance on fossil-based polymers have accelerated research into eco-friendly coating systems. Bio-based and renewable materials provide promising strategies to enhance textile performance while minimising environmental impact. Cellulose and nanocellulose, natural and regenerated fibres, and other bio-based polymers are particularly attractive due to their availability, versatility, and suitability for surface modification. As coatings, these materials enable the development of functional, protective, and smart textile surfaces with tailored mechanical, barrier, and responsive properties. This Special Issue highlights recent advances in coating science focused on textile substrates, where bio-based polymers play a central role in system design and performance. We welcome original research and review papers on the design, processing, characterisation, and application of sustainable textile coatings, aiming to promote environmentally responsible solutions for both academic and industrial use.

Guest Editors

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