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Surface Treatment for Fabrics and Textiles

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Message from the Guest Editor

Fabrics and textiles are being widely utilized today due to their excellent mechanical strength along fiber direction and superb formability induced by various woven structures. To form solid components with the desired geometry, fabrics and textiles are often composed with resin matrices, and a proper coating layer is essential at the fiber–resin interface for maximum bonding strength. Another purpose of coating is to protect and lubricate fibers during part manufacturing or deformation, where great impact and large relative sliding may happen among different fibers. Therefore, it is critical to select or develop suitable coating materials to improve the performance and processability of fabrics and textiles. Advanced coating materials can also be invented to implement additional functions, such as energy storage and damage sensoring capabilities, into fabrics and textiles. Moreover, for actual utilization, suitable manufacturing techniques are essential to establish for application of the coating materials to fiber surfaces at a low cost and with high efficiency.

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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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