



## Science and Technology of Fabric Coatings

Guest Editors:

**Prof. John I B Wilson**

1 Power Textiles Limited, Upland House, Ettrick Road, Selkirk TD7 5AJ, UK  
2 School of Engineering & Physical Sciences, Heriot-Watt University, Riccarton, Edinburgh EH14 4AS, UK

**Dr. Robert R Mather**

1 Power Textiles Limited, Upland House, Ettrick Road, Selkirk TD7 5AJ, UK  
2 School of Engineering & Physical Sciences, Heriot-Watt University, Riccarton, Edinburgh EH14 4AS, UK

Deadline for manuscript submissions:

**closed (31 March 2022)**



[mdpi.com/si/60267](https://mdpi.com/si/60267)

### Message from the Guest Editors

Dear Colleagues,

The textile industry has a long traditional history founded on clothing and housing humankind through natural materials, but it now extends to highly technical applications of specialist materials using both traditional textile fabrication methods and more novel approaches. Fibers and fully fashioned fabrics are often given enhanced performance by coatings of additional materials. These can augment existing properties, such as water repellency, or provide additional functionality, such as electrical conductivity, or even endow a fabric with chemical or electronic activity.

The scope of this Special Issue will encompass papers that include the following aspects of coatings on textiles, but also any other novel use of coatings, including aesthetic/design enhancements:

- Provision of physical and mechanical enhancements (e.g., hydrophobicity, shape memory);

Coating techniques may include any liquid, gaseous or plasma methods, either employed at the fiber stage or after fabrication of the textile. Performance assessment may include simulations, laboratory testing, and field testing, as well as referring to industry standards.



## Editors-in-Chief

### Prof. Dr. Wei Pan

State Key Laboratory of New  
Ceramics and Fine Processing,  
School of Materials Science &  
Engineering, Tsinghua University,  
Beijing 100084, China

### Dr. Emerson Coy

NanoBioMedical Centre, Adam  
Mickiewicz University in Poznań,  
ul. Wszechnicy Piastowskiej 3, 61-  
614 Poznań, Poland

## 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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Coatings Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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