



Novel Coatings for Smart Textile Fabrics for Enhanced Functions

Guest Editor:

Prof. Dr. Nour F. Attia

Department of Energy
Engineering, Gyeongnam
National University of Science
and Technology (GNTECH), Jinju
52725, Republic of Korea Fire
Protection Laboratory, Chemistry
Division, National Institute for
Standards, 136, Giza 12211, Egypt

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Message from the Guest Editor

Dear Colleagues,

Textile materials constitute a majority of various products because of their unique mechanical properties, which are involved in various applications. However, because of the recent demand for the comfortability of the textile consumer, various smart functions have to be included in the textile fabrics in order to convert them to smart textiles, such as those with flame retardancy, antibacterial, hydrophobicity, and thermal stability properties. This is in addition to the electrical conductivity and UV protection properties. This scope of this Special Issue will serve as a forum for papers in the following concepts:

- Novel flame retardant and thermal stability coating textile fabrics;
- Antibacterial textile fabrics coatings;
- Hybrid textile fabrics coatings for enhanced self-cleaning properties;
- Electronic textiles coated with metal nanowires for solar energy applications;
- Electrical-conductive textile fabrics and their sensor applications;
- Hydrophobic and hydrophilic textile fabrics;
- UV protective textile fabrics;
- Effect of different coatings of technology of textile performance;
- Medical textile coatings.





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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