Special Issue

Novel Coatings for Smart Textile Fabrics for Enhanced Functions

Message from the Guest Editor

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.

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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Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

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

Dr. Emerson Coy
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