Special Issue

Functional Textiles: Fabrication, Processing and Applications

Message from the Guest Editor

In recent years, the application of textiles has expanded dramatically beyond their conventional usage as apparels, which inspires a continuous emergence of new and advanced household and technical fabrics. At present, textile materials should overcome significant developmental hurdles to align with sustainability goals and meet stringent technical, legal, and specialized standards. The current market shows an increasing preference for multifunctional textiles that offer additional benefits beyond their basic purpose. Therefore, cutting-edge materials and technologies are being introduced to fabricate novel functional textile materials, which often include the utilization of enzymes and bio-based additives, advanced materials, nanoscale materials, etc., to alter the nature of fibres and polymers, as well as the application of coatings, plasma treatments, inkjet printing, ScCO2, etc. This Special Issue aims to gather the most recent advancements and breakthroughs in the realm of multifunctional textiles. The articles featured will encompass a wide range of subjects related to innovative materials, technological applications, and manufacturing processes.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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