Special Issue

Sustainable Colouration and Functional Finishing of Textiles

Message from the Guest Editors

Sustainable colouration and functional finishing of textiles has received tremendous attention, both from academia and industry. With the increasing concern on human health and environmental issues related to textiles, as well as the growing demand for multifuntional and customized textiles, a variety of advanced and sustainable materials and technologies are incorporated to the production of textiles. The materials, including bio-degradable reagents and polymers, nanomaterials, catalysts, conductive composites, etc., impart textiles with safety and new functions. The sustainable technologies involving inkjet printing, supercritical carbon dioxide, microwave, ultrasound, UV irradiation, etc., enables higher processing efficiency, with reduced energy, water, and time consumption, and also promotes the performance of materials. However, how to enchance the compatibility of these advanced materials and technologies for textiles processing towards optimal performances, remains in-depth, comprehensive, and interdisciplinary studies. This Special Issue covers these topics and focuses on the establishment of material–process–performance relationships.

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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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