



Nanomaterials and Textiles

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Message from the Guest Editors

When nanomaterials meet textiles, innovative new materials meet successful conventional fiber-based materials. This Special Issue will present comprehensive research outlining progress in the field of nanomaterials and textiles - the application of nanomaterials to improve the performance of textiles or initiate even new functional properties. This includes the utilization of nanoparticular finishing agents, new printing technology, fiber modification by spin-doping or electrospinning techniques, and similar techniques. We invite authors to contribute original research articles and review articles covering the current progress on nanomaterials and textiles. Potential topics include, but are not limited to:

- Nanoparticular finishing agents;
- Sol-gel technology;
- Surface structuring of textiles (nanostructuring);
- Photoactive materials;
- Printing processes and nanoparticular additives;
- Functional textiles – in the area of antimicrobial, flame-retardant, UV-protective textiles, etc.;
- Application of graphene, graphene-oxide, or carbon quantum dot materials;
- Fiber modification by spin-doping;
- Electrospinning;
- Nanomaterials in composites and fiber-reinforced materials.





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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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