

Special Issue

Smart Textiles: Materials, Fabrication Techniques and Applications

Message from the Guest Editor

From multifunctional to smart textiles, including e-textiles, various terms describe advanced materials. “Smart clothing” refers to garments offering active functions beyond tradition, achieved via functional textiles, electronics, or both.

Smart textiles are classified by capability: (i) passive (sense stimuli like temperature/humidity), (ii) active (sense and respond preprogrammed), and (iii) very smart (sense, react, adapt, and learn).

These textiles could revolutionize sectors like clothing and personal protective equipment (PPE), playing a major role in healthcare and other emerging fields. Key application areas include healthcare, transportation/energy, and protection/safety.

We invite articles investigating smart textiles. Topics include: smart materials, textile-based sensors, AI in textile science, surface functionalization, nanofibres/nanotech, medical/protective textiles, comfort, energy storage/harvesting, environmental impact/sustainability, standardization/testing.

Original work highlighting latest research and technical developments is encouraged, but review papers are also welcome.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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