Special Issue

Trends and Prospects in Carbon Nanotubes and Nanotechnology

Message from the Guest Editors

Research on carbon nanotubes and nanotechnology is poised for significant growth, with ongoing studies related to advanced materials, the energy sector, environmental applications, electronics, and biomedical innovations being performed. This Special Issue of *Applied Sciences* aims to present research papers that highlight recent research and the future application of carbon nanotubes (CNTs) and nanotechnology. The scope of this Special Issue includes, but is not limited to, the following topics:

- The synthesis, functionalization, and advanced characterization of nanomaterials;
- The processing of nanocomposite materials;
- The development of next-generation batteries;
- Nanotechnology in supercapacitors;
- Nanomaterials for carbon capture application;
- Carbon nanotubes in water and air purification systems;
- Advanced nanomaterials and fabrication techniques for flexible electronics;
- The impact and future scope of nanotechnology on the semiconductor industry;
- Advancements in nanotechnology in tissue engineering;
- Nanosensors;
- Research on the high-volume and low-cost production of carbon nanotubes;
- Addressing the safety and toxicity of carbon nanomaterials;

Guest Editors

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Deadline for manuscript submissions

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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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