

Special Issue

Analysis and Development of Carbon Materials

Message from the Guest Editors

Carbon materials have gained prominence across various scientific and technological domains due to their exceptional properties. Researchers have made significant progress in utilizing carbon nanotubes and other carbon-based materials for advanced energy storage systems. In environmental remediation, carbon-based materials like activated carbon demonstrate potential for pollutant adsorption and removal from air, water, and soil. Further research is needed to understand the underlying mechanisms, enhance catalytic activity, and address durability issues. Advancements in carbon-based composites have led to lightweight and high-strength materials with superior mechanical properties. Optimizing the fiber-matrix interface, tailoring mechanical properties, and achieving multifunctionality are key areas of focus. This Special Issue also explores carbon-based sensors and electronics, aiming to improve selectivity, integration, biocompatibility, flexibility, and long-term stability. Through this Special Issue, researchers will contribute to advancing the understanding and utilization of carbon materials, driving innovation and sustainable solutions.

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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.

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