

Special Issue

Carbon–Multidisciplinary Investigations and Innovative Solutions

Message from the Guest Editor

Carbon-based systems are a wide and ever-expanding range of materials. Examples include carbon nanotubes, graphene, polymers, or biomolecules. The myriad of stable forms of carbon is due to its ability to hybridize in many stable bond states and bond strongly with many other atoms; therefore, carbon-based materials are generating tremendous interest among scientists in the fields of physics, chemistry, materials science, and molecular biology. Carbon nanocomposites have made a special contribution to science, becoming a leading sector for research and progress due to their unique mechanical, optical, and electrical properties. The discovery of carbon allotropes, including fullerenes, carbon nanotubes, graphene, and carbon quantum dots, has revolutionized industry. The achievements possible in this area will play a significant role in the quality and safety of people's lives by reducing environmental, soil, water, and air pollution, as well as food waste. Thus, the production of new carbon-based materials, the study of their properties, and their subsequent functionalization are important tasks of materials technology and engineering.

Guest Editor

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