

Special Issue

Structure, Properties, and Applications of Carbon Materials

Message from the Guest Editor

Carbon materials are among the most important materials in the modern world. From the coal used in furnaces to the graphite found in lithium-ion batteries, carbon materials are deeply integrated into daily life and are highly valued. Novel structures, properties, and applications of carbon materials continue to emerge and be reported daily, with molecular-level characteristics recognized as key to their novel functions. The purpose of this Special Issue is to highlight high-quality research on recent advances in the molecular and nanoscale structures, properties, and applications of carbon materials. This includes, but is not limited to, activated carbon, biochar, graphene, nanotubes, diamonds, quantum dots, carbon composites, and other carbon-based structures where carbon is the main component and central focus of the study. Contributions exploring advanced applications such as sorption, energy storage, catalysis, electrochemistry, sensing, and more are specially encouraged, provided they emphasize the role of the molecular-level features in determining material performance.

Guest Editor

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