Special Issue

Sustainable Carbon-Based Nanomaterials: Synthesis and Catalytic Applications

Message from the Guest Editors

Sustainable carbon-based materials/nanomaterials have recently been the focus of increasing attention as highly functionalized nanomaterials/nanocatalysts in miscellaneous applications including hybrid graphene nanocatalysts, carbon materials, carbon-based single-atom catalysts, nanodiamond materials, N-doped carbon materials, carbon nitrides, and other advanced carbon nanostructures. These materials have seen tremendous growth in recent decades for their use in the development of sustainable carbon-based nanomaterials. Specifically, these carbon nanomaterials can now be tailor-made with superior precision with preferred catalytically active sites and they can be prepared in a more benign fashion with well-defined sizes, shapes, crystal facets, structure, and composition. Such controllability could possibly lead to advanced catalytic/photocatalytic/electrocatalytic/energy/environmental technologies and their other important applications. This Special Issue will highlight key examples of advanced carbon-based nanomaterials/materials with applications in various important catalytic, photocatalytic, energy, environmental, and electrocatalytic applications.

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