



Functional Carbon Materials and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Since their discovery in the last decades of 20th century, the scientific impact of sp^2 carbon nanomaterials, composed of zero dimensional (0D) fullerenes, 1D carbon nanotubes (CNTs), 2D graphene, and their derivatives has seen enormously growth. By operating in a multidisciplinary context, the superior physical and chemical properties of such nanostructures have been widely explored for applications in different fields, from chemistry, physics and engineering to biology and medicine. A large number of studies have been conducted for developing suitable functionalization processes to overcome some drawbacks and confer favourable functional to carbon nanostructures, mainly in engineering and biomedicine. These synthetic strategies employ both low and high molecular weight molecules to be linked by either covalent or non-covalent bonds. The main aim of this special issue is to present the most relevant and recent insights in the field of functional carbon materials, coupling the synthetic and the application features that underpin the choices made when seeking a specific functionalization route for a defined application.

Dr. Giuseppe Cirillo

