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Carbon Hybrid Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Due to their specific properties, i.e., high surface area, good electronic and thermal conductivity, mechanical and chemical stability, carbon materials emerged as essential materials used as supports or additives to design multifunctional carbon hybrid materials, Particularly, metal-based particles such as noble and transition metals, metal oxides, metal nitrides or metal hydrides supported on carbon have attracted tremendous interest in various fields of applications. Such composites are fascinating as they exhibit synergistic effects compared to their single counterparts. The aim of this issue is to present the development strategies to design carbon-based nanocomposites along with their performances in energy storage and environmental applications. Nanocomposites based of different forms of carbon (micro/mesoporous carbon, graphite, graphene, CNTs, carbon black…) and metal, metal oxides, metal nitrates, polymers or other carbon matrices can be discussed.

Dr. Camélia Matei Ghimbeu
Guest Editor