

Special Issue

Carbon Nanomaterial Synthesis, Functional Modifications and Applications in Catalytic Processes

Message from the Guest Editors

Nowadays, carbon nanomaterials constitute an important domain of nanoscience and nanotechnology due to their unique thermal, electrical, chemical and mechanical characteristics. In the broad spectrum of their potential applications, like the energy sector, sensors, drug delivery, composites, environmental protection, and so on, catalysis has emerged as a field where future trends will be mainly dictated by the development of carbon-based nanocatalysts. Since pristine nanocarbons, in general, are not active for heterogeneous catalysis, the design of high-performance carbon catalysts is still focused on tailoring the properties of the initial carbon nanomaterial by means of surface functionalization, doping with heteroatoms, and creating defects. The aim of this Special Issue is to comprise novel trends in the development of advanced carbon nanomaterials and their application in heterogeneous catalysis. Contributions from the field of innovative preparation methods of carbon nanomaterials, various types of their functional modification, and their application in heterogeneous catalytic processes are of great interest.

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