Special Issue

Hybrid Metal/Metal Oxide-Carbon Nanomaterials Catalysts

Message from the Guest Editors

Carbon materials, such as carbon nanotubes (CNTs), carbon nanofibers (CNFs), graphene and its derivatives or activated carbons (ACs) have been found unique catalysts supports. These materials may reveal some catalytic performance but usually are modified by anchoring the metals or metals oxides to form hybrids that combine the distinctive properties of both phases. Recently, carbonized nanoparticles that are derived from nanoscale metal-organic frameworks (MOFs) have been found suitable catalysts e.g. in the oxygen reduction reaction (ORR). The present Special Issue aims to cover recent research progress in the field of synthesis, characterization and the extensive catalytic applications of hybrid materials composed of carbon support (CNTs, CNFs, graphene, activated carbons, and MOF-derived carbons) and metal or metal oxide active phase. Submissions to this Special Issue are welcome in the form of original research papers or short reviews that reflect state of the art in the above-mentioned topics, concerning application of metals/metals oxides–nanocarbons hybrids in thermal catalysis, photocatalysis, electrocatalysis, photoelectrocatalysis, biocatalysis, etc.

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