Journal of Carbon Research

IMPACT FACTOR 3.9

CITESCORE 1.6

an Open Access Journal by MDPI

Carbon-Based Catalysts and Membranes for Water Treatment and Gas Separation

Guest Editors:

Dr. Luisa Pastrana-Martínez
Department of Inorganic Chemistry, University of Granada, Granada, Spain

Dr. Sergio Morales-Torres
Department of Inorganic Chemistry, University of Granada, Granada, Spain

Deadline for manuscript submissions:
closed (30 November 2019)

Message from the Guest Editors

In recent years, carbon-based membranes, in particular those composed of carbon nanotubes (CNTs) and graphene, have gained interest due to their transport characteristics, huge strength, smooth structure and tunable surface chemistry. Furthermore, membranes containing carbon-metal oxide composites have demonstrated a potential to the improvement of the membrane properties and performance. Carbon-based membranes embrace a wide variety of types, shapes and structures such as carbon coatings on inorganic supports, self-supporting or free-standing membranes (e.g., buckypapers), mixed matrix membranes, and so on.

This Special Issue will deal with the recent advances in carbon-based membranes, including those containing carbon-based composites. Different synthesis procedures, characterization techniques and their application for gas separation and water treatment will be covered, as well as novel insights can be proposed.