## **Special Issue**

## Carbon-Based Catalysts to Address Environmental Challenges

### Message from the Guest Editors

The potential of carbons as an alternative to the more conventional materials used in catalysis has been recently recognized. Carbon materials with the *graphenic* structure can be prepared from a wide range of precursors, and can be used as catalyst supports or as catalysts on their own. Structural defects and edges offer reactive sites where different functional groups can be attached; in addition, carbon atoms in the graphite lattice can be replaced by heteroatoms such as N, B, P or S. Functionalization and doping are methodologies that can be used for tuning the properties of these carbon materials, allowing the design of custom-made catalysts for specific applications. In this Special Issue, we will focus on challenging environmental applications for carbonbased catalysts, such as the production of chemicals and fuels from biomass and carbon dioxide, including photo and electrocatalysis; energy storage and conversion; and the replacement of industrial catalysts that are based on scarce elements. The application of carbon-based catalysts in pollution abatement is also within the scope of the Special Issue.

### **Guest Editors**

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### Deadline for manuscript submissions

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