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Element-Doped Functional Carbon-based Materials

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Deadline for manuscript
submissions:

closed (30 June 2019)

Message from the Guest Editors

Dear Colleagues,

Carbon materials are one of the most fascinating materials because of their unique properties and potential use in several applications. They can be obtained from residues or by using advanced synthesis technologies like chemical vapour deposition. The carbon family is very wide, it includes classical activated carbons to more advanced ones, like carbon nanomaterials. However, these materials possess an easily tuneable porosity or chemical characteristics, which determine their final application. The surface chemistry is one of the most interesting aspects of this broad family of materials which allows the incorporation of different types of chemical functionalities or heteroatoms on the carbon surface such as N, B, S, P modifying, the acid-base character or their electronic properties.

This Special Issue will deal with the recent advances in heteroatom-doped carbon materials. Different synthesis procedures, characterization techniques and applications for these functional materials will be covered, as well as novel insights can be proposed.





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Message from the Editor-in-Chief

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