

Special Issue

Element-Doped Functional Carbon-based Materials

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2019)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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