Special Issue

Synthesis, Characteristics and Application of Doped Carbon Structures

Message from the Guest Editor

This Special Issue of *Materials* invites original research articles, communications and comprehensive reviews on the synthesis, characteristics and applications of doped carbon materials. The scope of this Special Issue covers very broad aspects from synthesis, properties, characterization and applications of a broad range of doped carbon-based materials in different dimensions (0D, 1D, 2D and 3D) and forms including quantum dots (QDs), carbon nanotubes (CNTs), graphene, graphite, porous carbons, nanofibers, carbon 3D hybrids/composites, etc. In particular, the topic will cover progress on their doping by heteroatoms, such as nitrogen, sulphur, boron, oxygen, and others, for developing fascinating intrinsic properties and functionalities (physical and chemical) which are explored in many emerging applications across broad sectors such as advanced catalysis, electro- and photoelectrocatalysis (hydrogen, CO2), energy storage (supercapacitors, batteries), sensing, environmental remediation, biomedical applications and agriculture. We are looking to receive your valuable contributions and helping to further advancements in this important field.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2023)

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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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