

Special Issue

Glassy Carbon: Microstructure, Properties and Applications

Message from the Guest Editor

This Special Issue will focus on the microstructure, properties and applications of glassy carbon; a graphene-rich form of elemental carbon obtained from pyrolysis of polymers. Glassy carbon is an isotropic, low-density material that exhibits excellent electrical and thermal conductivity, wide electrochemical stability window, superior mechanical strength, corrosion resistance, cytocompatibility and impermeability to most gases and liquids. The motivation behind this Special Issue is to facilitate a common platform to material scientists and microsystem engineers working on different aspects of glassy carbon, which allows for a rapid and active exchange of the outcome of their work. Manuscripts detailing theoretical/experimental work on all open questions regarding glassy carbon's microstructure, as well as on new application areas and fabrication techniques, unexplored carbonizable polymers and pyrolysis tuning can be submitted in the form of short communications, research articles or reviews. It is however noteworthy that at least one keyword of the paper should be glassy carbon or pyrolysis.

Guest Editor

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Message from the Editorial Board

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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