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Glassy Carbon: Microstructure, Properties and Applications

Guest Editor:

Dr. Swati Sharma
Karlsruhe Institute of Technology, Germany

Deadline for manuscript submissions:
closed (15 January 2019)

Message from the Guest Editor

Dear Colleagues,

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.

Dr. Swati Sharma
Guest Editor

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Message from the Editor-in-Chief

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