Special Issue

Advanced Functional Polymer Derived Ceramic Fibers: Preparation, Properties and Applications

Message from the Guest Editors

During the last few decades, high-performance non-oxide ceramics have become of great interest due to their unique and diverse features. Since the polymer-derived ceramics (PDCs) route was set up, new functional ceramics have been designed with a thourough control of the composition and the shape of the materials. This Special Issue will focus on the various non-oxide polymer-derived ceramic fibers, from elaboration to final use. Major sub-topics include synthesis of the preceramic polymers, and their spinning and thermal treatment behaviors. And, it will assess how designing the molecular architecture, tailoring the chemical composition, rheology, spinnability and pyrolysis performance can influence the functional properties of fibers, together with their potential applications. It is our pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

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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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