Special Issue

Research and Application of Polymer-Derived Ceramics

Message from the Guest Editor

Polymer-derived ceramics (PDCs) are a kind of ceramics derived from organic polymers, such as preceramic polymers or ceramic precursors. Generally, preceramic polymers can be shaped using conventional plastic-forming techniques, such as resin transfer molding, injection molding, spinning, etc., and then converted into ceramics with the desired shape and properties via heat treatment in a controlled atmosphere. The composition and structures of ceramic products can be designed by controlling the precursor chemistry and pyrolysis process. This Special Issue is oriented toward all types of polymer-derived ceramics, innovations in materials, new functions and applications, microstructural tailoring, and the properties (thermal, mechanical, catalytic, electrical, and dielectric properties) of precursors derived from ceramic products (fibers, coatings, films and ceramic matrix composites), as well as studies of the pyrolysis mechanism and process.

Guest Editor

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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