



Research and Application of Polymer-Derived Ceramics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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