Special Issue

Advances in Polymer Nanofibers: Thermomechanical Properties and Internal Supermolecular Structure

Message from the Guest Editor

I am pleased to present an upcoming Special Issue devoted to the one of hot topics of modern nanotechnology: examination of electrospun polymer nanofibers demonstrating outstanding mechanical and unusual thermodynamic properties as compared to macroscopic-scale structures. The first condition (high stretching rate) results in formation of non-equilibrium supermolecular structures within electrospun fibers, whereas the second (rapid evaporation) provides structure fixation. The goal of this Special Issue is to demonstrate and clarify the relationship between the internal non-equilibrium structure of electrospun polymer nanofibers and their thermomechanical properties.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
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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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