



Advances in Research and Preparation of High-Performance Polymer Fibers

Guest Editor:

Dr. Yumin Xia

College of Materials Science and
Engineering, Donghua University,
2999 North Renmin Road,
Shanghai, China

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Message from the Guest Editor

Dear Colleagues,

High-performance fibers have been widely used in many industrial applications due to their highly specialized physical properties, including a high tensile strength (and/or modulus), high thermal resistance, flame retardancy, chemical resistance, excellent electrical properties, etc. The most common organic high-mechanical-performance fibers are ultra-high-molecular-weight polyethylene (UHMWPE) fibers, para-aramid fibers, thermotropic liquid crystal polyester (TLCP) fibers and poly(phenylene benzobisoxazole) (PBO) fibers. They are ideal reinforcement materials and are usually used in cables/ropes, parachutes, bullet proof vests, cut-resistant fabrics and ballistic protective armor. Meta-aramid fibers and polyimide (PI) fibers are widely used in fireproof suits and firefighter garments due to good heat/thermal resistance.

Considering the key roles of high-performance fibers, the editors are pleased to launch this Special Issue and invite researchers to contribute original research papers/reviews associated with the main topic and title of this Special Issue.

Dr. Yumin Xia
Guest Editor





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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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Polymers Editorial Office
MDPI, St. Alban-Anlage 66
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