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Polymer-Based Fiber Reinforcements: Synthesis, Structure, Characterization and Application

Guest Editors:

Dr. Ilaria Papa

Department of Chemical, Materials and Industrial Production Engineering, University of Naples Federico II, 80125 Naples, Italy

Dr. Francesco Napolitano

Institute of Polymers, Composites and Biomaterials, National Research Council, Via Campi Flegrei, 80078 Pozzuoli, Italy

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Message from the Guest Editors

Dear Colleagues,

The growing interest in innovative and performing materials has made composite materials an object of interest for research due to their excellent strength/weight ratio and the variety of fields of application (aerospace, automotive, sports, and construction). Many studies concern the research of new techniques for the production of composites with a polymer matrix and fiber reinforcements, from pultrusion to filament winding. However, these conventional techniques require the use of molds, and this inevitably raises costs. Other studies, on the other hand, concern the optimization of processes for existing techniques, to obtain high-performance materials, and at the same time, to obtain light materials. The present Special Issue aims to focus on research related to innovative technologies, manufacturing processes, and composite materials for high-performance components. Contributions may be related to conventional or unconventional processes, highlighting novel aspects of and manufacturing methods, coating processing technology, fiber treatments and materials that can be used to obtain high-performance components.













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Editor-in-Chief

Prof. Dr. Alexander Böker

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

Message from the Editor-in-Chief

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