



Interactive Fiber Rubber Composites—Volume II

Guest Editors:

Prof. Dr. Chokri Cherif

Institute of Textile Machinery and
High Performance Material
Technology, Technische
Universität Dresden, Dresden,
Germany

Dr. Thomas Gereke

Institute of Textile Machinery and
High Performance Material
Technology, Technische
Universität Dresden, Dresden,
Germany

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Message from the Guest Editors

Due to their high intrinsic deformation capacity, the application of interactive fiber rubber composites (I-FRCs) has become a promising approach to generate controllably deformable components with specifically adjustable properties. FRCs can respond to changes in their environment (e.g., temperature and magnetic fields) and ensure precise as well as long-term stable functionalities by means of regulation and control circuits that are based on and linked to sensorial condition monitoring. However, these functionalities require innovative component designs and cross-scale modeling, simulation, and integration into system conceptions, experimental research, and material developments. These I-FRCs are a new class of materials offering new properties. This advantage makes them suitable for numerous fields of application, such as in mechanical engineering, vehicle construction, robotics, architecture, orthotics, and prosthetics

Given the significance of the material class offered by I-FRCs, this Special Issue aims to publish peer-reviewed and open access papers advancing the body of knowledge in this important area of material research, including applications.





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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