Special Issue

Advancing Soft Robotics with Polymers

Message from the Guest Editors

The Special Issue aims to showcase cutting-edge research in the field of soft robotics, emphasizing the integration and innovation of polymer materials. This Special Issue will cover a broad spectrum of topics, including the development of new models for soft robotic mechanics, advanced sensing techniques that enhance robotic perception and interaction, innovative driving mechanisms that leverage the unique properties of polymers, and sophisticated control systems that enable adaptive and autonomous behavior in soft robotic platforms. Contributors are encouraged to submit original research articles and comprehensive reviews that explore these themes. We are particularly interested in contributions that address the challenges of integrating polymer materials into soft robotic systems, including, but not limited to, durability, flexibility, and response efficiency. Studies that offer novel insights into the computational strategies for modeling the behavior of polymer-based soft robots or that present groundbreaking approaches to the design and fabrication of these systems are also welcome.

Guest Editors

Dr. Chaoqun Xiang

School of Mechanical and Electrical Engineering, Guangzhou University, Guangzhou 510006, China

Dr. Ye Chen

College of Mechanical Engineering and Automation, Liaoning University of Technology, Jinzhou 121001, China

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.
I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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