



Soft Actuators: Design, Fabrication and Applications

Guest Editors:

Dr. Chongjing Cao

Research Centre for Medical
Robotics and Minimally Invasive
Surgical Devices, Shenzhen
Institute of Advanced Technology
(SIAT), Chinese Academy of
Sciences, Shenzhen 518055,
China

Prof. Dr. Bo Li

School of Mechanical
Engineering, Xi'an Jiaotong
University, Xi'an 710049, China

Dr. Xing Gao

Research Centre for Medical
Robotics and Minimally Invasive
Surgical Devices, Shenzhen
Institute of Advanced Technology
(SIAT), Chinese Academy of
Sciences, Shenzhen 518055,
China

Deadline for manuscript
submissions:

closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues,

Soft robotics is a fascinating research field that integrates material sciences, robotics and biology to create the next generation of robots that can better adapt to natural environments with complex uncertainties and human-centric operations with strict safety requirements. As one of the core components of soft robots, soft actuators have constantly been the research focus of this particular field. Over the last decade, we have witnessed the rapid development of many novel soft actuators, such as pneumatic and electroactive polymers, which have enabled the agile locomotion and complex task operations of soft robots. These include achieving a more efficient/effective actuation of soft actuators through clever and elegant design; developing rapid, yet reliable, fabrication techniques to replace conventional, time-consuming casting for soft actuators; and developing novel applications for these soft actuators that exhibit their true potential in real-world settings.

This Special Issue will be devoted to state-of-the-art research on soft actuators, including the design, fabrication and applications of soft actuators.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/micromachines
micromachines@mdpi.com
[X@micromach_mdpi](https://twitter.com/micromach_mdpi)