Special Issue

Soft Actuators: Design, Fabrication and Applications

Message from the Guest Editors

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 pneu-net 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.

Guest Editors

Dr. Chongjing Cao

Prof. Dr. Bo Li

Dr. Xing Gao

Deadline for manuscript submissions

closed (29 February 2024)



Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/164301

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

mdpi.com/journal/ micromachines





an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



About the Journal

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.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

