## **Special Issue**

### Micro- and Nano-Systems for Manipulation, Actuation and Sensing, 2nd Edition

### Message from the Guest Editors

The precise control, handling, and manipulation of microscale and nanoscale objects including robots, particles, cells, droplets and molecules on micro/nano platforms are essential to the fields of chemistry, biology, robotics, and telecommunications. Micro/nano systems have become powerful tools for tackling some of society's most pressing problems, including healthcare, energy harvesting, and environmental quality. However, challenges must be overcome to expand the practicability of micro/nano systems, such as the stability of assembling, precision of microscale control, compatibility of materials in complex environments, and insufficient driven forces. Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on: (1) the novel design, modeling, fabrication, and assembling of micro/nano-scale systems for small object manipulation, control and actuation based on, but not limited to, magnetic, electric, thermal, acoustic, light; (2) multiphysics-driven intelligent microrobots, actuators and sensors; (3) applications of newly designed microfluid and nanofluidic systems for fluid control and sensing.

### **Guest Editors**

#### Dr. Ran Peng

Department of Marine Engineering, Dalian Maritime University, 1 Lingshui Road, Dalian 116026, China

#### Prof. Dr. Shuailong Zhang

Beijing Advanced Innovation Center for Intelligent Robots and Systems, School of Mechatronical Engineering, Beijing Institute of Technology, Beijing 100081, China

### Deadline for manuscript submissions

closed (15 May 2024)



# **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/184218

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

mdpi.com/journal/ micromachines





## **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



MDPI

## 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
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

### 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).