Special Issue

Recent Advances of Micromachines in Medicine & Biology

Message from the Guest Editor

The world market for microdevices in both medicine and in biology is expanding rapidly. This also presents new challenges for the microsystem community to meet these often-demanding requirements. Micromachines offer many opportunities for both sensors and actuators. Accordingly, we hereby announce a Special Issue addressing the advances in micromachines in medicine and biology. These devices are typically in the range from the sub-mm to the nano-meter scale. We invite submissions on all aspects of the development of micromachines in both these fields. Examples of topics include implantable sensors and actuators, wearable devices, microfluidic devices and systems, microrobots, energy scavenging, etc. Related novel system concepts and application proposals are acceptable contributions. Within each of these areas, there are issues such as technology, power, safety, design, packaging, etc. Contributions covering any of these issues for micromachines when applied to medicine and biology will be considered.

- micromachining
- micropumps
- microfluidic systems
- implantable devices
- wearable MEMS
- microrobots
- energy scavenging
- flexible MEMS

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2022)

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About the Journal

Message from the Editor-in-Chief

Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

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Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).