



Advances in Infrared and Physical Sensors

Guest Editors:

Dr. Jingxuan Wei

Department of Electrical and
Computer Engineering, National
University of Singapore,
Singapore 117583, Singapore

Dr. Xianhao Le

Department of Electrical and
Computer Engineering, National
University of Singapore,
Singapore 117583, Singapore

Deadline for manuscript
submissions:

closed (31 July 2022)

Message from the Guest Editors

Dear Colleagues,

Along with the emerging Internet of Things and distributed sensors network, we have seen an enormous demand for sensors with a smaller footprint, lower power consumption, and higher sensitivity. Among these, infrared sensors detect electromagnetic waves with wavelength above 760 nm, which are widely used in night vision, communications, remote temperature monitoring, chemical analysis, etc. In practice, infrared radiation is usually transduced into other physical quantities, such as temperature, conductance, and pressure. In the meantime, physical sensors, detecting these quantities and others in the environment, provide complementary information to infrared sensors. More excitingly, because of the internal similarities between infrared and physical sensors, we have witnessed in the past few years many exciting works on infrared sensors adapted from physical sensors. This Special Issue seeks to showcase research papers and review articles that focus on (1) novel infrared sensors, (2) novel physical sensors, and (3) their applications for environmental monitoring, thermal imaging, biosensing, and so on.

Dr. Jingxuan Wei

Dr. Xianhao Le

Guest Editors





Editor-in-Chief

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 (*Chemistry, Analytical*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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