



## Nanomaterials Modified Sensors and Multiplexing Assays

Guest Editor:

**Dr. Sharat Chandra Barman**  
Department of Chemistry,  
University of Florida, Gainesville,  
FL 32611, USA

Deadline for manuscript  
submissions:  
**closed (31 August 2022)**

### Message from the Guest Editor

Nanomaterials as capture sites and enablers of signal transduction in biosensor applications have attracted a great deal of attraction from researchers in efforts to develop point-of-care sensors, disease model studies, and multiplexing assays. The ongoing COVID-19 pandemic requires multiplex detection systems with reliable, sensitive, reproducible, and selective features, and these technologies are also urgently needed for cancer diagnostics. Recently, many technologies, strategies, and nanomaterials are widely used for developing (bio)sensors.

Accordingly, this Special Issue invites contributions in the form of research papers and review articles that focus on nanomaterials-modified high-performance electrochemical and optical sensors, and on multiplexing assay development. Furthermore, with this Issue we aim to highlight the recent methods, limitations, and future directions for (bio)sensors and multiplexing assays.

We look forward to receiving your submissions!





# *micromachines*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Nam-Trung Nguyen**

Queensland Quantum and  
Advanced Technologies Research  
Institute, Griffith University, West  
Creek Road, Nathan, QLD 4111,  
Australia

## 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.

## 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 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

## Contact Us

---

*Micromachines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/micromachines](http://mdpi.com/journal/micromachines)  
[micromachines@mdpi.com](mailto:micromachines@mdpi.com)  
[X@micromach\\_mdpi](https://twitter.com/micromach_mdpi)