

Special Invited Session 14

Micro-Nano Chemical Sensor

As a critical branch of micro-nano engineering, micro-nano chemical sensors have undergone rapid development over the past decade, driven by advances in nanomaterials, microfabrication, and signal transduction technologies. These innovations have enabled highly sensitive, selective, and miniaturized sensing platforms capable of detecting trace-level chemical and biochemical analytes. Emerging micro-nano chemical sensors, including electrochemical, optical, and hybrid systems, offer unique advantages such as fast response, low power consumption, and seamless integration with wearable, implantable, and point-of-care devices. Consequently, they play an increasingly important role in applications ranging from health monitoring and precision medicine to environmental surveillance and smart systems. This session focuses on recent progress, novel designs, and key findings in micro-nano chemical sensors and their integration into intelligent sensing platforms.

Special Invited Session Chairs



Cui Ye

Shanghai Jiao Tong University, China



Ting Wang

Nanjing University of Posts and Telecommunications, China

Contact

Conference Website: <https://www.ieee-nems2026.org>

Conference Secretary: Rachel Huang

Tel: +86-28-87555888/+86-13281280917

Email: ieee-nems2026@young.ac.cn



2026 IEEE 21st International Conference on
Nano/Micro Engineered and Molecular Systems

April 17-21, 2026 Chengdu, China

Paper Submission

For the initial submission, the authors can select one of the following two types:

- Type 1: full paper (4-6 pages)
- Type 2: extended abstract (2 pages)

*Note:

▪ **View more on website:**

<https://www.ieee-nems2026.org/initial-submission.html>

▪ **Submit your paper through the following link or QR code:**

<https://easychair.org/conferences/?conf=nems2026>

- Step 1: Please select the track “**Special Invited Sessions**” and click “**Continue**.”
- Step 2: After filling in the basic paper information, please select the topic “**SIS14 – Micro-Nano Chemical Sensor**.”



Important Dates

Initial Submission (Full Paper or Extended Abstract)	Jan. 31, 2026
Notification of Acceptance	Feb. 10, 2026
Late-News Submission Deadline	Feb. 28, 2026
Early Registration Deadline	Mar. 10, 2026
Presentation-Only Submission Deadline	Mar. 10, 2026
Final Submission Deadline	Mar. 10, 2026

Sponsored By

