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NANO KOREA 2026

The 24th International Nanotech Conference

Innovation for Future: As Nano Meets AI

July 8(Wed.) – 10(Fri.), 2026

KINTEX Exhibition Hall 1, Korea

Hosted by Ministry of Science and ICT, Ministry of Trade, Industry and Resources

Organized by KoNTRS Korea Nanotechnology Research Society, KNTIA

TS05 Angstrom-Scale 2D Materials for Beyond-Nano Technology

Theme

Growth, Characterization, and Device Processing of 2D Materials toward Beyond-Nano Technology Applications in Electronics, Photonics, Sensors, Energy, Neuromorphic, and Quantum Devices

Two-dimensional (2D) materials with atomic-scale thickness offer new opportunities for electronics beyond conventional nanoscale technologies. This session covers recent advances in the growth, characterization, and device processing of 2D materials, with emphasis on their emerging applications in electronics, photonics, sensors, energy, neuromorphic, and quantum devices. We aim to explore key challenges and future directions for realizing beyond-nano technologies enabled by 2D materials.

Topics

- Growth and synthesis of 2D materials
- Fabrication and characterization of 2D heterostructures
- Characterization and metrology of 2D materials
- Integration of 2D materials into electronic and optoelectronic devices
- 2D materials for Beyond-CMOS and monolithic 3D integration (M3D) devices
- 2D materials for quantum and neuromorphic computing
- 2D materials for sensor and energy applications

Important Dates

Abstract Submission Deadline	Notification of Acceptance	Presenter & Pre-Registration Deadline
Friday, March 27, 2026	**Friday, April 24, 2026**	**Friday, May 15, 2026**

Invited Speakers

- Abishek Misra (IIT Madras)
- Donguk Nam (KAIST)
- Gwan-Hyoung Lee (Seoul Nat'l Univ.)
- Jonghwan Kim (POSTECH)
- Kosuke Nagashio (The Univ. of Tokyo)
- Sang-Hoon Bae (WashU)
- Sungwoo Nam (UC Irvine)
- Vincent Tung (The Univ. of Tokyo)
- Zhang Hua (CityU)

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Abstract Submission →

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NANO KOREA 2026 Conference Secretariat

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