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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

TS02 Nanophotonics and its Applications

Theme

Nanophotonics: Nanostructures, Materials, Interactions, and Applications

New possibilities in controlling and measuring light are continuously being discovered due to the discovery of various characteristics induced by the interaction of nanostructures, materials, and light. These new nanophotonics technologies can be actively used in bio, medicine, displays, communications, and quantum information. In this session, it is discussed how we can overcome existing technological limitations and create new applications by exchanging the latest research results and ideas in the fields of nanophotonic technologies such as metamaterials, near-field optics, photonic crystals, and plasmonics, quantum information processing as well as nanostructure fabrication and manufacturing.

Topics

Light manipulation on a nanoscale
- Plasmonics: nanostructures and their optical properties
- Metamaterials, metasurface, physics and engineering
- Nanowaveguide and nanophotonic devices & systems
- Photonic integrated circuits, and silicon photonics: active and passive devices and circuits
- Ultrafast and nonlinear optics in nano- and low-dimensional materials

Light detection on a nanoscale
- Near-field optical microcopy
- Nanobiophotonics, super-resolution imaging, optofluidics

Light & optical energy generation on a nanoscale
- Nanolasers, nano LEDs
- Nanophotonics for energy harvesting
- Quantum optics & Photonic quantum information
- Quantum photonic detection, generation, manipulation, and integrated systems

Nanophotonic devices and sensors
- Photonic nanostrucutre implementation
- Nanophotonic device/sensor 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

- Dan Luo (SUSTech)
- Dangyuan Lei (CityU)
- Kwon-Hyeon Kim (Harvard Medical School)
- Satoshi Iwamoto (The Univ. of Tokyo)

Committees

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Abstract Submission →

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