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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 Ⅰ, Korea

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

Organized by KoNTRS Korea Nanotechnology Research Society, KNTIA

TS13 AI and Computational Science Based Smart Nanomaterials

Theme

Development of Next Generation Smart Nanomaterials based on Artificial Intelligence and Computational Science

Recent advances in artificial intelligence (AI) and computational science are revolutionizing the way nanomaterials are designed, synthesized, and applied. This symposium focuses on the integration of AI and computational science with nanoscience to accelerate the discovery and optimization of smart nanomaterials for energy, environment, electronics, and biomedical applications. Topics include AI and computational science guided materials design, autonomous experimentation, data-driven modeling of nanoscale phenomena, and emerging applications of intelligent nanomaterials. The session aims to bring together researchers from materials science, chemistry, and physics to discuss the future of intelligent nanomaterials innovation powered by AI and computational science.

Topics

- Multi-scale modeling approach for smart nanomaterials
- AI-guided design and discovery of nanomaterials
- Data-driven modeling and prediction of nanoscale phenomena
- Autonomous and self-driving laboratories for nanomaterials synthesis
- AI-accelerated simulations and multiscale modeling
- Machine learning interatomic potential based modeling of smart nanomaterials

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

- Guangfu Luo (SUSTech)
- Heechae Choi (XJTLU)
- Nitish Govindarajan (NTU Singapore)
- Pengfei Ou (NUS)

Committees

Chair	**Yong Joo Kim (Korea Univ.)**	
Co-Chair	**Donghun Kim (KAIST)**	
Members	Byung-Hyun Kim (Hanyang Univ. ERICA)	Junhho Shin (KRICT)
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	Joonhee Kang (Pusan Nat'l Univ.)	Youngho Kang (Incheon Nat'l Univ.)
	Jung-Hoon Lee (KIST)	

Organizers

Conference Committee Chair	Baeho Park (Konkuk Univ.)
Program Committee Chair	Seok Jae Lee (NNFC)
Program Committee Vice Chairs	Chong-Yun Kang (NRF), Rino Choi (Inha Univ.)

Abstract Submission →

http://nanokorea-conference.or.kr/2026/abstract.php

NANO KOREA 2026 Conference Secretariat

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