

Korean International Semiconductor Conference & Exhibition on Manufacturing Technology 2025

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Re:Innovation of Semiconductor Manufacturing for AI Ecosystem



Prof. Inki Kim

(Sungkyunkwan Univ., Republic of Korea)

Inki Kim is an Associate Professor in the Department of Biophysics, Institute of Quantum Biophysics (IQB) at Sungkyunkwan University (SKKU). He received his Ph.D. degree (with *Chang Kun-Soo* Memorial Award) in Mechanical Engineering at Pohang University of Science and Technology (POSTECH) in 2021, and B.S. degree (with highest honor) in Mechanical Engineering at Ulsan National Institute of Science and Technology (UNIST) in 2015. He has published 80+ peer-reviewed articles in journals such as *Nature Nanotechnology*, *Nature Communications*, *Science Advances*, *Advanced Materials*, *Materials Today*, and *Light: Science and Applications*. He is the recipient of several notable honors and awards such as Global Ph.D. Fellowship (2016), SPIE Optics and Photonics Scholarship (2020), MOE Minister's Commendation for the Excellence in BK program (2021), *Chang Kun-Soo* Memorial Award (Best Dissertation in Engineering) (2021), OSA *Robert S. Hilbert* Memorial Student Grant (2021), and OSK Young Optical Scientist Award (2024). Currently his research interests are experimental nanoscale photonics including metamaterials, metasurfaces, plasmonics, nanofabrications, bionanophotonics, quantum biophysics, and quantum-integrated medical devices. His total citation number exceeds over 5,500 with h-index of 41 as of September 2025.