Associate professor. Moonsang Lee

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Professor Moonsang Lee is a faculty in the Department of Materials Science and Engineering at Inha University. He received his Ph. D in the Department of Materials Science and Engineering from Seoul National University and worked as a specialized researcher at Samsung Advanced Instituted of Technology until 2015. Then, he joined Korea Basic Science Institute as a senior research scientist and moved to Inha University at 2021. Professor Lee's research aims to bridge the fundamental understanding of advanced materials with the realization of innovative device technologies for future information processing, sensing, and energy systems. His research interests include plasmonic hot-carrier physics and its applications in optoelectronic and energy devices; beyond-von-Neumann and more-than-Moore device architectures for neuromorphic and unconventional computing; advanced-material-based semiconductor sensors; micro- and ultraviolet light-emitting diodes; and next-generation power electronic devices. He is particularly interested in exploring how novel material platforms and device concepts can enable multifunctional, reconfigurable, and energy-efficient electronic and optoelectronic systems. Through these efforts, Professor Lee continues to pursue both fundamental and application-driven research that integrates materials science, device physics, and system-level functionality, with the goal of advancing next-generation electronic and optoelectronic technologies.