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ON MANUFACTURING TECHNOLOGY 2024

KISM 2024 BUSAN

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Paradise Hotel Busan & Grand Josun Busan
(Haeundae Beach) | Busan, Korea



Prof. Woongkyu Lee

(Soongsil University, Republic of Korea)



Woongkyu Lee is an assistant professor in the Department of Materials Science and Engineering at Soongsil University. He earned his Ph.D. from the Department of Materials Science and Engineering of Seoul National University in 2014. He was a research assistant at Inter-University Semiconductor Research Center (Seoul National University, 2014-2015) and a postdoctoral fellow/research associate at Materials Research Institute (Northwestern University, 2015-2019). Before he joined Soongsil University in 2022, he worked at the Department of Electrical Engineering at Myongji University as an assistant professor. His research interests are focused on the thin film process, mainly the atomic layer deposition technique. Challenging materials with thermodynamically unstable phases or multicomponent materials were studied with novel precursors and reactants. Reaction mechanisms including interface/surface reaction and abnormal growth behavior were studied for DRAM capacitor, memristor, and flash applications.