



## **Prof. Woo-Jae Lee**

(Pukyong National University, Republic of Korea)



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Woo-Jae Lee earned his Ph.D. from Pusan National University in the Republic of Korea in 2020. He then undertook post-doctoral research positions at the University of Pennsylvania and the University of California: San Diego in the USA. Subsequently, he joined the Korea Institute of Energy Research as a senior researcher. Currently, he serves as an assistant professor in the Department of Nanotechnology Engineering at Pukyong National University (PKNU) in the Republic of Korea since 2023.

His research primarily centers on material synthesis via Atomic Layer Deposition (ALD) and explores a wide range of ALD-based applications, including fuel cell, reforming reaction, solar cells, hard coatings, anti-reflective films, transparent conducting oxides, electrode thin films, metal gate anti-corrosion coatings, high-k thin films, low-k materials, and more. In particular, my research has mostly focused on the deposition of metal nanoparticles or metal oxide thin films on porous powders using the modified ALD systems.