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Heeyeop CHAE received his B.S. and M.S. in chemical engineering from Seoul National University and his Ph.D. in chemical engineering from Massachusetts Institute of Technology (MIT) (2000). After his Ph.D. he joined Applied Materials, a semiconductor equipment company, in California, USA as a senior process engineer. He has been working as a professor in School of Chemical Engineering at Sungkyunkwan University (SKKU) since 2004. He is a vice president of Korean Vacuum Society and The Korea Society of Semiconductor and Display Technology. His research interests include i) plasma-enhanced atomic layer etching and deposition, ii) low global warming etching gas development, iii) plasma monitoring and machine learning and iv) light emitting quantum dot materials and devices.