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Tae-Woo Lee is a professor in the department of the Materials Science and Engineering at Seoul National University, Korea. He received his Ph.D in chemical engineering from KAIST, Korea in February 2002. Then, he joined Bell Laboratories, USA as a postdoctoral researcher in March 2002. From September 2003 to August 2008, he worked at Samsung Advanced Institute of Technology, Samsung Electronics as a member of research staff. He received a prestigious Korea Young Scientist Award from the President of Korea in 2008 and The Scientist of the Month Award from the ministry of science, ICT and future planning in 2013. He is author and co-author of 203 papers including Science, Nature Photonics, Science Advances, Nature Communications, PNAS, Energy and Environmental Science, Angewandte Chemie, Advanced Materials, and ACS Nano, as well as inventor and co-inventor of 375 patents (187 Korean patents and 188 international patents). His research focuses on organic, organic-inorganic hybrid, and carbon materials and their applications to flexible electronics, printed electronics, displays, solid-state lightings, solar energy conversion devices, and bio-inspired neuromorphic devices.