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Prof. Park, Hyesung

Korea University, S. Korea



Dr. Hyesung Park is currently a Professor in Department of Integrative Energy Engineering and KU-KIST Graduate School of Converging Science and Technology at Korea University, South Korea. He received his M.S. and Ph.D. degrees in Mechanical Engineering and Electrical Engineering and Computer Science from Massachusetts Institute of Technology (MIT) in 2007 and 2012. He was a postdoctoral associate at MIT from 2012 to 2013 and postdoctoral fellow at Northwestern University in 2014. His research interests focus on developing novel low/hetero-dimensional nanostructured materials (graphene, transition metal dichalcogenides, ionic crystals, *etc.*) toward high-performance energy harvesting systems (solar cell, water splitting, electro/photo-catalysis, *etc.*) and emerging semiconductor technologies (nanoelectronics, nanophotonics, neuromorphic computing, sensors, *etc.*).