

Speaker Profile



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Name : Jaebeom Lee

Title : Assistant Professor

Institute : Pusan National University

Jaebeom Lee received his B.S. degrees in Chemistry from Chungnam National University in 1998, and Ph.D. degree in Chemistry from the Robert Gordon University, United Kingdom in 2003.

Before joining the faculty at Pusan National University (PNU) in 2007, Dr. Lee worked as a research fellow on several projects on design and synthesis of flexible nanoscale superstructures for sensing and actuating, development of tissue imaging using florescent nanoparticles and nanowires, development of nanoscale wavelength shift sensor using semiconductor nanowire in Chemical Engineering Department at the University of Michigan (UM), Ann Arbor for more than four years. The Project was granted by the National Science Foundation (NSF) since the work involved an design of generic sensors based on CdTe nanowires that can monitor the analyte concentration in the wavelength shift of the emission.

Dr. Lee was awarded Newport Research Excellence Award from SPIE at 2004 when he was at UM. Since 2007 when he joined PNU, Dr. Lee continued his research on various types of functional superstructures using nanoparticles to acknowledge physicochemical and optical properties in nanoscale regime and their applications such nanoscale temperature sensors, nanoscale optical switch, bionano-degradable structure design.

Dr. Lee is currently interested in fabrication and characterization of engineered assemblies of nanomaterials such as semiconductor materials, CdTe, CdS, HgTe, and metallic materials Au, Ag in order to observe unique nanoscale properties between them. Also Dr. Lee is interested in surface modification of nanocomposites for biocompatibility and biodegradability in bionano-medical applications.

