Orbital Gating in Vertical Molecular Junction Transistors

Prof. Takhee Lee

Biography :

Lee is currently a Professor in Department of Physics and Astronomy, Seoul National University (SNU), Korea. He received his B.S. and M.S. degree in physics at SNU, Korea in 1992 and 1994, respectively, and he received his Ph.D. degree in physics at Purdue University, USA in 2000. He was a postdoctor at Yale University, USA until 2004. He was a faculty in Department of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), Korea until 2011. His researches at SNU are characterization of the electrical properties of structures involving single molecules, self-assembled monolayers, polymers, perovskites, semiconductor nanomaterials, and their assembly into electronic devices. He has edited 2 books, written 11 book chapters, 25 review articles, and more than 330 journal articles. He was awarded with SNU Research Award (2025), Korea Science Award (2018), Korean Physical Society Research Award (2016), Outstanding Research Award in SNU (2014), Best Thesis Advisor Award in Physics (2012), Korean Scientist of the Month Award (2010), Prime Minister Award (2010), and Minister of Education, Science and Technology Award (2008, 2010). He is a member of Korean Academy of Science and Technology (since 2022).