

Personal Information

Full name	Kwang-Ryeol Lee	
Current position	Principal Research Scientist	
Organization	Korea Institute of Science and Technology	
Country	Korea	

Short Biography

Dr. Kwang-Ryeol Lee is now a principal research scientist in the Computational Science Center at Korea Institute of Science and Technology (KIST). Dr. Kwang-Ryeol Lee graduated from Seoul National University with the major of Metallurgical Engineering. He studied in KAIST "The coherency strain effect on discontinuous precipitation" for his Ph.D degree. After finishing his graduate study in 1988, he joined Division of Applied Science at Harvard University to study kinetics of the laser annealing of semiconductor surface. In 1991, he joined KIST and has been studying both fundamental aspects and industrial application of the diamond-like carbon (DLC) coating technology. He transferred various DLC coating technologies to Korea Industry, such as DLC coated VCR head drum, IC forming and trimming dies, dental and micro-drills, and variety of sliding tools. From 2001, his research was extended to the computational nano-science to understand atomistic or sub-atomistic behavior of materials, thin films and nanostructured surface evolution. Wide range of the computational tools from DFT to meso-scale structure simulation was employed. He is now developing the web-based multiscale materials design platforms, which would reduce the entrance barrier to the computational nano-science. As of Mar. 2016, he has total citation about 5,183 with H-index 37 (by scholar.google.co.kr). He also filed more than 60 patents (both domestic and international). For 2002 - 2010, he served as the Session moderator and Symposium moderator of the Carbon and Nitride Coating Symposium in the International Conference of Metallurgical Coating and Thin Films (ICMCTF), one of the American Vacuum Society Conference. He has been international advisory committee member of Asian Consortium on Computational Materials Science (ACCMS) since 2006. He has organized number of international symposium on computational materials science. He organized 4th Symposium of ACCMS in 2007, 1st International Workshop for DLC Standardization in 2008, ACCMS Working Group Meeting on Advances in Nano-device Simulation in 2011. He received 4 times the Best Research Award of KIST and the Commendation of the Prime Minister of Korea in 2005.