

Speaker Profile



Contact Details

Organization Name:
University of Pittsburgh

Address:
3700 O'hara Street

Town: Pittsburgh, Pennsylvania

Country: USA

Zip code: 15261

Phone: (412) 648-3395

Fax: (412) 624-4846

Email: jul37@pitt.edu

Website:
<http://www.engineering.pitt.edu/JungKunLee/>

Dr. Jung-Kun Lee

Assistant Professor, Department of Mechanical Engineering and Materials Science, University of Pittsburgh

Dr. Jung-Kun Lee's group at the University of Pittsburgh (Pitt) has been exploring the synthesis and modification of the nanostructured materials. Dr. Lee joined the University of Pittsburgh in September 2007 as an assistant professor after more than five years of service at Los Alamos National Laboratory. He received his PhD degree from the Department of Materials Science and Engineering at Seoul National University, Korea. His thesis was on superior electronic properties of domain engineered ferroelectric thin films and crystals. Then, he won the highly competitive Director's Postdoctoral Fellowship of Los Alamos National Laboratory and joined Los Alamos in January, 2002. At Los Alamos, he was involved in several research projects on photovoltaics, nano-science, spintronics, and semiconductors. Due to his strong performance as a postdoctoral fellow, he was promoted to a technical staff member in January, 2005. He has placed specific research emphasis on 1) photovoltaic application of wide band-gap nanoparticles, 2) material processing of electronic materials in forms of nanoparticles, bulk ceramics/crystals, and thin films, 3) optical and magnetic properties of nanoparticles, and 4) the surface modification using ion implantation and chemical methods. The scientific quality of his research is validated by more than 130 publications in refereed journals. He also holds 9 patents on the dielectric and optical applications of functional materials. At the University of Pittsburgh, he serves as MSE graduate program coordinator and adds the nanoscience and nanoengineering education to both graduate-level and undergraduate-level courses.