

Speaker Profile



Contact Details

Organization

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Name: Hyun Suk Jung

Title: Assistant Professor

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EDUCATION

- Ph.D. Materials Science & Eng., Seoul National University, Seoul, Korea, February 2004.
- M.S. Inorganic Materials Eng., Seoul National University, Seoul, Korea, February 1999.
- B.S. Inorganic Materials Eng., Seoul National University, Seoul, Korea, February 1997.

WORK EXPERIENCES

- 09/2006-Present Assistant Professor, Kookmin University, Korea
- 04/2005-08/2006 Director's Funded Postdoctoral Fellow, Los Alamos National Laboratory, USA
- 03/2004-03/2005 Postdoctoral Scholar, Research Institute of Advanced Materials, SNU, Korea.
- 02/2001-06/2001 Visiting Student, Materials Research Laboratory, Penn. State University, USA.

RESEARCH FIELDS

- Energy Conversion Materials (Nanocrystalline Solar Cell)
- Synthesis and Characterization of Nanocrystalline Materials
- Functional Materials with Dielectric, Ferroelectric and Hydrophilic properties
- Fundamentals of Material Science

REPRESENTATIVE PUBLICATIONS

- H. S. Jung et al. "Effect of CaCO₃ coating on TiO₂ nanoparticles on the dye adsorption and photoelectric performance of dye sensitized solar cells," *Solar Energy Materials & Solar Cells*, 90 (15), 2405 (2006).
- H. S. Jung et al. "Enhancing Photocatalytic Activity by Using TiO₂-MgO Core-Shell Structured Nanoparticles," *Appl. Phys. Lett.*, 88, 013107 (2006).
- H. S. Jung et al. "Preparation of Nanoporous MgO-Coated TiO₂ Nanoparticles and Their Application to Electrode of Dye-Sensitized Solar Cells," *Langmuir*, 21, 10332 (2005).
- H. S. Jung et al. "Synthesis of ZnO nanocrystals by subsequent implantation of Zn and O species," *Appl. Phys. Lett.*, 86, 183111 (2005).
- H. S. Jung et al. "In-situ Observation of the Stability of Anatase Nanoparticles and Their Transformation to Rutile in an Acidic Solution," *Langmuir*, 20, 11732 (2004).