

Nam-Gyu Park, Ph.D.

Principal Research Scientist

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Education

- Feb 1995 Ph.D. Inorganic Chemistry
Department of Chemistry, Seoul National University, Seoul, Korea
- Feb 1992 M.S. Inorganic Chemistry
Department of Chemistry, Seoul National University, Seoul, Korea
- Feb 1988 B.S. Chemistry
Department of Chemical Education, Seoul National University, Seoul, Korea

Professional Experience

- Dec 2005- present Korea Institute of Science and Technology (KIST), Seoul, Korea/
Principal Research Scientist
- Jan 2000- Dec 2005 Electronics and Telecommunications Research Institute (ETRI),
Daejeon, Korea/ Principal Research Scientist
- Jun 1997- Dec 1999 National Renewable Energy Laboratory (NREL), Golden, CO, USA/
Research Associate
- Mar 1996- May 1997 Institute de Chimie de la Matiere Condensee de Bordeaux
(ICMCB-CNRS), Pessac, France/Post-doc
- Jan 1988- Feb 1990 Sunkyung Chemical (SKC) Ltd., Chunan, Korea/
Research Associate

Publications and Patents

75 peer-reviewed papers at International Journals; 33 Granted International and Domestic Patents

Selected Publications

- ▶N.-G. Park et al., "Chemical sintering of nanoparticles: A methodology for low-temperature fabrication of dye-sensitized solar cells", *Advanced Materials* 17, pp2349-2353 (2005)
- ▶N.-G. Park et al., "Morphological and Photoelectrochemical Characterization of Core-Shell Nanoparticle Films for Dye-Sensitized Solar Cells: Zn-O Type Shell on SnO₂ and TiO₂ Cores", *Langmuir* Vol 20, pp4246-4253 (2004)

- ▶E. A. Schiff, N.-G. Park et al., "Determining the Locus for Photocarrier Recombination in Dye-Sensitized Solar Cells", *Appl. Phys. Lett.* Vol 80, pp685-687 (2002)
- ▶N.-G. Park, A.J. Frank et al., "Comparison of dye-sensitized rutile- and anatase-based TiO₂ solar cells", *J. Phys. Chem. B*, Vol 104, 8989 (2000)

Invited Talks

Over 70 invited talks including "Application of nanocrystalline rutile TiO₂ in dye-sensitized solar cells" The 4th PCPM International Conference, NIMC, Tsukuba, Japan (Mar. 14, 2000)

International Activity

- ▶Organizer and Vice Chairman of International Symposium "New Frontiers in Photovoltaics" Sept. 2004, Kyeongju, Korea.
- ▶ Organizer and Chairman of Internal Symposium of "Dye-sensitized solar cell" at the 11th Asian Chemical Congress (ACC), Aug. 2005, Seoul, Korea
- ▶ Organizer of "the 1st Japan-Korea DSSC Joint Workshop" Sept. 2006, Tokyo, Japan