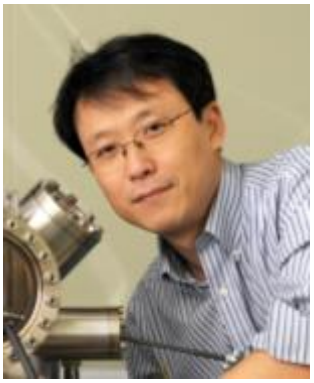
Resume



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Research field: Analytical Chemistry (Nanobiosensors, Nanomaterials, and SPM)

Qualifications

2013- Chair, Research Institute of Nanobio Convergence
2001-2012 Head/Principal Research Scientist/Senior Research Scientist, KRISS
2007-2012 Adjunct Professor, Department of Nanobiotechnology, UST
2000-2001 Postdoctoral Fellow, Department of Chemistry and Chemical Biology, Harvard University
2000-2000 Research Staff, Genesis Research Institute
1994-2000 Ph.D., Seoul National University, Physical Chemistry
1992-1994 MS, Seoul National University, Physical Chemistry
1987-1992 BS, Seoul National University, Chemistry Education

Publications (selected)

W. S. Yun, J. J. Urban, Q. Gu, and H. Park, "Ferroelectric properties of individual barium titanate nanowires investigated by scanned probe microscopy", Nano Letters, 2, 447 (2002)

C. S. Ah, Y. J. Yun, H. J. Park, W.-J. Kim, D. H. Ha, and W. S. Yun, "Size-controlled synthesis of machinable single crystalline gold nanoplates", Chem. Mater. 17, 5558 (2005)

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H. Y. Jang, H.-J. Jang, D. K. Park, W. S. Yun, and S. Park, "Fabrication of Shape-Controlled Reduced Graphene Oxide Nanorings by Au@Pt Nanoring Lithography", Nanoscale, 7, 460-464 (2015)

A. Kang, D. K. Park, S. H. Hyun, Y. H. Kim, and W. S. Yun, "pH-Dependent Size Distribution of Gold Nanoparticles Investigated by in situ pH-Monitoring throughout the Synthetic Reaction", Chem. Phys. Lett. 639, 230 (2015)

Y.-T. Kim, K.-H. Kim, E. S. Kang, G. Jo, S. Y. Ahn, S. H. Park, S. l. Kim, S. Mun, K. Baek, B. Kim, K. Lee, W. S. Yun, and Y. H. Kim, "Selective and Rapid Detection of Pathogenic Bacteria using Clustered Magnetic Nanoparticles Conjugated with Target Antigens", Bioconjugate Chem. 27, 59−65 (2016)

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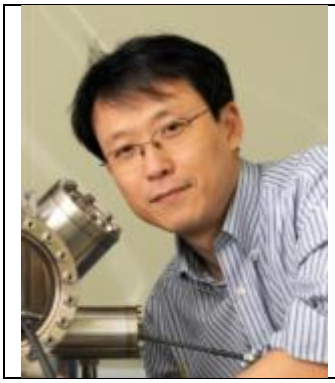

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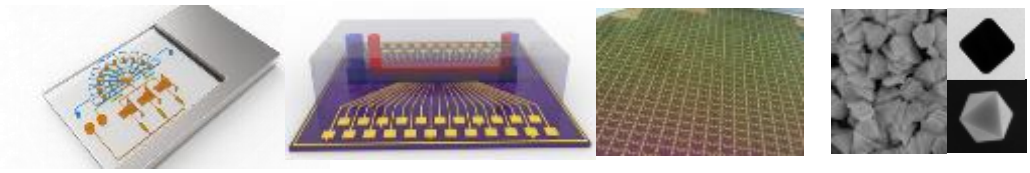
TECHNOLOGICAL EXPERTICE AND INTEREST		
NT	Nanobiosensor	Electric and electrochemical analysis of biologically- or clinically-important targets based on nanogap devices
NT	Nanomaterials & Precision measurements	Synthesis and physicochemical characterization of nanoscaled materials

KEY BUSINESS AREA & MAJOR PRODUCTS

Ultra-sensitive and/or cost-effective nanobiosensors. Nanomaterials of peculiar/unique shape and properties

DETAILED DESCRIPTION

1. Ultra-sensitive and/or cost-effective nanobiosensors



2. Nanomaterials of peculiar/unique shape and properties