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EDUCATION

KAIST	Ph.D	Biomolecular & Chemical Engineering	2004
Hanyang University, Ansan, Korea	MS	Chemical Engineering	1999
Hanyang University, Ansan, Korea	BS	Chemical Engineering	1997

PROFESSIONAL ACTIVITIES

- Manager/Principal Researcher, Division of Nanobiosensors·Chips Development, NNFC, Daejeon, Republic of Korea (November 2007 to Present)
- Principal Researcher, R&D Center, Samsung Engineering, Suwon, Republic of Korea (September 2004 to 2007)
- Researcher, Life Science R&D Center, Green Cross Company (GCC), Yongin, Republic of Korea (December 1998 to 2004)

AWARD AND HONORS

- 2018 Nano Korea Award (R&D), Innovation Award of the year, Korea National Research Foundation (NRF)
- 2014 The Scientist of the Year Award, Minister of Science, ICT and Future Planning of Korea
- 2014 The Best Research Paper Award of the Year, The Korean Federation of Science and Technology Societies (KFOST)

MAIN SCIENTIFIC PUBLICATIONS

- *In Vitro* Biosynthesis of Metal Nanoparticles in Microdroplets, *ACS Nano*, **8**, 6998-7008 (2012)
- Scalable Nanopillar Arrays with Layer-by-Layer Patterned Over and Covert Images, *Adv. Mater.*, **26**, 6119-6124 (2014)
- Hierarchical Porous Microstructures of the Co₃O₄@Graphene with Enhanced Electrocatalytic Performance for Electrochemical Biosensors, *Biosens. Bioelectron.*, **89**, 612-619 (2017)
- Flexible and Highly Ordered Nanopillar Electrochemical Sensor for Sensitive Insulin Evaluation, *Biosens. Bioelectron.*, **161**, 112252 (2020)

RESEARCH INTERESTS

- Nanobiotechnology, Biochip, Biosensor and Microfluidics for diagnosis of infectious diseases