



• Field	Semiconductor device engineering	• Office	College of Engineering 1238
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Education background

2002 ~ 2007 Hongik University (Doctor of Engineering - The Department of Electricity and Electronic Engineering)
2000 ~ 2002 Hongik University (Master of Engineering - The Department of Electricity and Electronic Engineering)
1994 ~ 2000 Hongik University (Bachelor of Engineering - The Department of Electricity Control System Engineering)
(Master of Engineering - The Department of Electricity Control System Engineering)
(Doctor of Engineering - The Department of Electricity Control System Engineering)

Major careers

2013.11 ~ 2014.10 Professor in charge of Electronic engineering
2011 ~ 2013 Senior Researcher of the IT Convergence Technology Research Sector, Electronics and Telecommunications Research Institute
2010 ~ 2011 Centre for Molecular and Nanoscale Electronics Researcher of Durham University, UK
2009 ~ 2010 Postdoctoral researcher of the Department of Electrical Engineering, Seoul National University
2007 ~ 2009 Postdoctoral researcher of the Department of Electronics & Communications Engineering, Hanyang University
2007 ~ 2007 BOE-HYDIS Co. LCD Senior Researcher of the Research Institute

Studies & Books

Research

- 'Photo-assisted molecular engineering in solution-processed organic thin-film transistors with a blended semiconductor for high mobility anisotropy', Applied Physics Letters 102, 013306 (2013). [SCI]
- 'Stability characteristics of gallium-doped zinc-tin-oxide thin-film transistors fabricated using a sol-gel method', Journal of the Korean Physical Society 62, 1176 (2013). [SCI]
- 'Light-Exposure Effects on Electrical Characteristics of 6,13-Bis(triisopropylsilyl)ethynyl)Pentacene/CdTe Composite Thin-Film Transistors', Japanese Journal of Applied Physics 52, 05DC12 (2013). [SCI]
- 'Environmental effects on the electrical behavior of pentacene thin-film transistors with a poly(methyl methacrylate) gate insulator', Organic Electronics 14, 2101 (2013). [SCI]
- 'Poly(ethylene glycol)-Functionalized Photocurable Silsesquioxane as an Antibiofouling Material for Nanostructure-Based Biomedical Applications', Japanese Journal of Applied Physics 52, 06GG01 (2013). [SCI]
- 'Amorphous Indium Gallium Zinc Oxide Thin-Film Transistors with a Low-Temperature Polymeric Gate Dielectric on a Flexible Substrate', Japanese Journal of Applied Physics 52, 0771102 (2013). [SCI]
- 'Enhancement of outcoupling efficiency of organic light-emitting diodes using a planarized moth-eye structure on glass substrate' Optics Letters 38, 3773 (2013). [SCI]
- 'Effect of Changing the Thickness of Charge Control Layer on Performance of Green Phosphorescent Organic Light-Emitting Diodes', Journal of Korean Oil Chemists' Society 30, 244 (2013). [KCI]
- 'Comparative Study on Interfacial Traps in Organic Thin-Film Transistors According to Deposition Methods of Organic Semiconductors', Journal of Korean Oil Chemists' Society 30, 290 (2013). [KCI]

Others

Social Career

- 2011 ~ 2013 한국전자통신연구원, IT융합기술연구부문, 선임연구원
- 2010 ~ 2011 영국 더럼(Durham) 대학교, Centre for Molecular and Nanoscale Electronics, 연구원
- 2009 ~ 2010 서울대학교 전기공학과 박사후 연구원
- 2007 ~ 2009 한양대학교 전자통신공학과 박사후 연구원
- 2007 ~ 2007 BOE-HYDIS Co. LCD 연구소 선임연구원

Affiliated Society

- The Korean Society of Semiconductor
- The Korean Information Display Society
- The Korean Institute of Electrical and Electronic Material Engineers
- Society for Information Display (M)

- Materials Research Society (MRS)
- IEEE Electron Device Society (EDS)