

# Kyungkon Kim

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- Mar. 2018 - Professor, Department of Chemistry and Nano Science, Ewha Womans University
- Mar. 2013 - Feb. 2018 Associate Professor, Department of Chemistry and Nano Science, Ewha Womans University
- Mar., 2012 - Feb., 2013 Assistant Professor, Department of Chemistry and Nano Science, Ewha Womans University
- Jan., 2011 - Feb., 2012 Head of Solar Cell Research Center, Solar Cell Research Center, Korea Institute of Science & Technology (KIST)
- Mar., 2010 - Feb., 2012 Principal Research Scientist, Solar Cell Research Center, Korea Institute of Science & Technology (KIST)
- June, 2006 - Feb., 2010 Senior Research Scientist, Solar Cell Research Center, Korea Institute of Science & Technology (KIST)

## EDUCATION:

- Feb, 2003 **Korea University**, Seoul, Korea  
Ph.D. in Polymer Chemistry. Advisor: Prof. Jung-II Jin  
*Dissertation:* "Poly(*p*-phenylenevinylene) and Carbonized Poly(*p*phenylenevinylene) Nano Objects Prepared by Chemical Vapor Deposition Polymerization, and Photonic and Electronic Properties of Poly(*p*-phenylenevinylene) Derivatives Bearing Carbazole or N-phenylcarbazole Pendants."
- Feb, 1996 **Korea University**, Seoul, Korea  
M.S. in Physical Chemistry. Advisor: Prof. Seung Joon Jeon  
*Thesis:* "High Pressure Raman Study on Dimethyl Sulfoxide"
- Feb, 1992 **Korea University**, Seoul, Korea  
B.S. in Chemistry.

## RESEARCH EXPERIENCE:

2006 - Present

- **Organic Photovoltaics (OPV)**  
Low band gap polymer design and its application for the opto-electric device.  
Novel device structure (tandem, inverted OPV)  
Degradation mechanism
- **Next generation solar cell**

Plasmonic solar cell  
Organic-Inorganic hybrid solar cell

2005- 2006 Dept. Electrical Engineering, Yale University (Advisor: Prof. Jung Han)  
• Controlled growth of GaN Nanowire for hybrid opto-electric device  
• Hybrid LED with conjugated polymer and GaN

2003-2005 Postdoctoral Fellow at Center for Nanotech., Wake Forest University  
(Advisor: Prof. David L. Carroll)  
• Bulk heterojunction organic photovoltaics  
• Organic-inorganic hybrid solar cell  
• Plasmonic solar cell