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## **Curriculum Vitae**

1991. 8 - 1986. 8	Temple University(Philadelphia),	Ph.D./1991	Chemistry
1986.8 – 1985. 2	Sogang University(Seoul),	M.S.	Chemistry
1985. 2 - 1978. 2	Sogang University(Seoul),	B.A./1985	Chemistry

## **Awards & Editorial Board Members**

- 2005 Nov. Best Researcher (Chungnam National Univ.)  
2007 Apr. The Year of Scientist (Deajeon)  
2007 Sep. The year of Best 50 Scientific Achievement (Ministry of Sci. & Tech)  
2007 Oct. The year of Best 100 Scientific Achievement (KOSEF)  
2008 Dec. Excellence Service in Project Evaluation (KOSEF)
- Editorial Board Member: *Journal of Industrial and Engineering Chemistry*,  
*Carbon Letters*  
*The Open Nanomedicine Journal* (ISSN 1875-9335)

## **Significance in Scientific Activity**

1. Conference Organizer; PacRim 2009, micro-TAS 2009, ICC3 (International Congress on Ceramics) 2010
2. Featured Article as Cover Image:  
*J. Mat. Chem* (2006 Feb), *Adv. Fucnt. Mat.* (2006 May). *Lab on a Chip* (2009 Sep)
3. Plenary Talk  
2006 Aug. 4<sup>th</sup> East-Asian Polymer Conference (Nankai Univ. China)  
2006 Oct. Inter. Conf. Egeinering Physics (Hanoi, Vietnam)  
2009 Jun. 7<sup>th</sup> Inter. Conf. Nanochannels, Microchannels, & Minichannels (Pohang, Korea)  
2009 June Asia-Pacific Chemical and Biological Microfluidics 2009 (Hongkong)
4. Invited Talk  
2006 Aug. Inter. Mesostructured Materials Symp.(Shanghai, China)  
2006 Sept. Janpanese Ceramic Soc. Fall Meeting (Yamashida, Japan)t  
2007 Oct. EuroMat (Nurenberg, Germany)  
2007 Nov. 7<sup>th</sup> Pacific Rim Conf. Ceramic & Glass Tech.(Sanghai, China)  
2008 Apr. 32<sup>nd</sup> Inter. Conf. Advanced Ceramics & Composites (Daytonna Beach, USA)  
2008 May 19<sup>th</sup> Inter. Conf. Molecular Electronics & Devices (Suwon, Korea)  
2008 Jun. Inter. Symp. Advanced Si-based Ceramics & Composites (Jeju, Korea)  
2008 Dec. Kor-Japan Sol-gel Sci. & Tech Forum (Daejeon, Korea)  
2009 Aug. GRAMS (Group on Automated Flow and Microreactor Synthesis), Osaka Japan  
2009 Aug 15<sup>th</sup> Inter. Sol-Gel Conf.(Brazil)  
2009 Sept. The 6<sup>th</sup> International Forum On Post-Genome Technologies (Beijing, China)

## **Research & Professional Experiences**

1995. 2 - Present	Chungnam National Univ., Prof.
2007. 1 - 2007. 2	Visiting Scholar, Univ. of Hull, UK (Dr. Haswell)
2002. 8 - 2003. 8	Visiting Scholar, Univ. of Illinois at U-C, U.S.A. (Dr. Kenis)
2002. 1 - 2002. 2	Visiting scholar, Darmstadt Univ., Germany (Dr. R. Riedel)
2000. 1 - 2000. 2	Visiting Scholar, NIMC, Tskuba, Japan (Dr. Uchimaru)
1998. 7 - 1998. 8	Visiting Scholar, Paris IV Univ., France (Dr. F. Babonneau)
1997. 7 - 1997. 8	Visiting Scholar, Univ. of Illinois at U-C, U.S.A. (Dr. Economy)
1995. 2 - 1993. 9	Senior Researcher, Korea Res. Inst. of Chem. Technology, Korea
1993. 8 - 1991. 9	Pos-doctor, Univ. of Illinois at U-C, Materials Science and Eng.

**<Patent>** : 23 patents (domestic 19, international 4)

**<Publication>**: over 150 peer-reviewed articles

162. "Solvent resistant PDMS microfluidic devices with coating of hybrid inorganic/organic polymer" *Adv. Funct. Mat*, submitted

161. "Replica Mold for Nanoimprint Lithography from a Novel Hybrid Resin". *Langmuir* in press

160. "Microwave Assisted Synthesis of High Molecular Weight Polyvinylsilazane via RAFT Process" *Polymer*, in press

155. Fabrication of Novel Transparent Inorganic Polymer Derived Microchannels and Application for Photopolymerization, *J. Nanosci. & Nanotech.* in press

154. Real-Time UV Spectrophotometric Analysis for organic chemistry of novel inorganic polymer derived Microreactor, *J. Nanosci. & Nanotech.* in press

153. "Development of Fabrication technology for microchemical reactor and MEMS module from preceramic polymers" *Polymer Science & Technology*, Vol 20(2), p 150, 2009

152. "Fabrication of Three-Dimensional SiC Ceramic Microstructures with Near-Zero Shrinkage via Dual crosslinking Induced Stereolithography" *Chem. Comm.*, 4880~4882, 2009

151. "Generation of Monodisperse Inorganic-Organic Janus Microspheres in a Microfluidic Device, *Adv. Funct. Mat.*, Vol. 19, pp 1656~1662, 2009

150. Facile single step fabrication of microchannels with varying sizes, *Lab Chip*, 9, 1138 – 1142, 2009

149. "Adhesion Force Measurement between stamp and resin in UV Nanoimprint Lithography- An Investigative Approach" *Nanotechnology* **20** (2009) 55704-55710

148. Facile preparation and unique H<sub>2</sub> adsorption behavior of three dimensional novel Pt-Ru hollow sphere assemblies, *Microporous & Mesoporous Materials*, 117(1-2), 208-212, 2009

147. "Hydrogenation of Methyl Dodecanoate Using Copper Chromite", *J. Korean Ind. Eng. Chem.*, vol 20(2) p2001-2007, 2009