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### **Education**

Mar. 1978 - Feb. 1982 B.S. in Chemical Engineering,  
Seoul National University

Mar. 1982 - Feb. 1984 M.S. in Chemical Engineering,  
Korea Advanced Institute of Science and Technology

Sep. 1986 - Aug. 1991 Ph.D. in Chemical Engineering,  
Korea Advanced Institute of Science and Technology

### **Career**

Mar. 1984 - present Research Scientist, Senior Research Scientist, and  
Principal Research Scientist; Head of Clean Technology  
Research Center (2004-2007); Head of Clean Energy  
Research Center (2008-2011) in KIST

Nov. 1992 - Oct. 1993 Post-doc. in Carnegie Mellon University (U.S.A.)

Dec. 1995 - Mar. 1996 Visiting Scholar in University of Tokyo (Japan)

Apr. 2003 - Apr. 2004 Visiting Scholar in University of Notre Dame (U.S.A.)

Sept. 2016 - Oct. 2016 Visiting Scholar in Karlsruhe Institute of Technology  
(Germany)

Jan. 2013 - Dec. 2013 Chairman of Catalysis Division in the Korean Institute  
of Chemical Engineers (KIChE)

Jan. 2015 - Dec. 2015 President of the Korean Society of Clean Technology

Aug. 2016 - present Chief executive of Korean Biofuels Forum

### **Major Research Areas**

1. Biofuel production and biorefinery (Thermochemical conversion of biomass)
2. Catalytic valorization of CO<sub>2</sub>, CH<sub>4</sub> and low molecular weight paraffins
3. Green chemical processes using novel catalysts and reaction media
4. Synthesis, characterization, and application of nanoporous aerogels