Curriculum Vitae



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Birth of Date: September 6, 1961 Nationality: Republic of Korea

Education:

- ✓ Ph.D. in Astrophysical Sciences-Plasma Physics, Princeton University, Princeton, NJ USA (12/92), Thesis: Studies of Non-Inductive Current Drive in the CDX-U Tokamak
- ✓ M.S. in Nuclear Engineering, Seoul National University, Seoul Korea (2/86)
 Thesis: Numerical Analysis of Free-Boundary Equilibrium for Axisymmetric Toroidal Plasmas
- ✓ B.S. (Honors) in Nuclear Engineering, Seoul National University, Seoul Korea (8/83)

Professional Experience:

\checkmark	2020 – present	Chair, ITER Science and Technology Advisory Committee (STAC)
\checkmark	2020 - present	Director, Nuclear Research Institute for Future Technology and Policy
\checkmark	2019 - present	Chair, IEA ST-TCP (Technical Collaboration Program) Executive Committee
\checkmark	2008 - present	Director, Center for Advance Research in Fusion Reactor Engineering
\checkmark	2006 - present	Professor, Seoul National University
\checkmark	2004 - 2005	Visiting Scientist, TRIUMF, Canada
\checkmark	2001 - 2006	Associate Professor, Seoul National University
\checkmark	1998 - 2001	Assistant Professor, Seoul National University
\checkmark	1996 - 1998	Assistant Professor, Dept. of Nuclear Engineering, KAIST
\checkmark	1992 - 1998	Associate Research Physicist, Princeton Plasma Physics Laboratory
✓	1986 - 1992	Research Assistant, Princeton Plasma Physics Laboratory

Research Fields:

- ✓ Fusion
 - Spherical tokamak design, construction and operation
 - Diagnostics and control: magnetic diagnostics, interferometer and polarimetry, etc.
 - Heating and current drive (H&CD): DC helicity injection, electron Berstein wave H&CD, etc.
 - Fusion reactor design
- ✓ Plasma and applications
 - Various plasma sources and their applications
 - Various ion sources and their applications
 - Pulsed power and neutron source
 - Particle simulation for space plasmas

Awards and Honors:

\checkmark	2017	Commendation from Minister, Ministry of Science and ICT
\checkmark	2009	Commendation from Minister, Ministry of Education, Science and Technology
\checkmark	2006	Sinyang Engineering Award, College of Engineering, Seoul National Univ.
✓	1986	Princeton Merit Prize, Princeton Univ.

Published papers:

160 Refereed Journal Papers for 35 years of Plasma and Fusion Studies