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EDUCATION

Ph.D. Princeton University, USA, Astrophysical Sciences (Plasma Physics)
M.A., Seoul National University, Korea, Nuclear Engineering
B.A., Seoul National University, Korea, Nuclear Engineering

PROFESSIONAL EXPERIENCE

1997 – Present Professor, Department of Physics, KAIST
2012 – Present Member, Science and Technology Advisory Board for the Member of National Assembly of Korea
2011 – Present Member, ITER Council, Science and Technology Advisory Committee
2013 – Present Editorial Board Member, Nuclear Fusion (an IOP Science Journal)
2007 – 2013 Editorial Board Member, Current Applied Physics (an Elsevier Journal)
2014 – Present Chairman, Korean Physical Society - Division of Plasma Physics
2010 – 2011 Chair, Department of Physics, KAIST
2010 – 2012 Review Board, Directorate for National S&E Programs, National Research Foundation (NRF) of Korea
2000 – Present Organizing or program committee chair/member, session chair, paper referee of many international conferences (AEPSE, ICOPS, ICIS, APCPST, DPS, ISTS, APFA, ICMAP, LAPD etc)
1997 – Present Member of Korean Physical Society, Korean Vacuum Society, American Physical Society, IEEE

RESEARCH AREAS

- Atmospheric pressure plasma physics and applications
- Hall effect plasma thruster development and plasma characterization
- Impurity transport for fusion plasma
- Development of plasma diagnostics (2-D soft x-ray imaging, VUV, visible, tomography)