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EDUCATION

- '03 Ph.D. Materials Science & Engineering, KAIST, Korea
- '97 MS Materials Science & Engineering, KAIST, Korea
- '92 BS Ceramic Science & Engineering, Yonsei University, Korea

PROFESSIONAL ACTIVITIES

- '20.12 - Samsung Electro-Mechanics, Director of Corporate R&D Institute
- '10 - '20 National Energy Technology Laboratory (NETL, USA), Senior R&D Scientist
- '07 - '09 University of Pennsylvania, Researcher
- '06 - '08 University of Science and Technology (UST, Korea), Adjunct Professor
- '03 - '08 Korea Institute of Energy Research, Senior Researcher

AWARD AND HONORS

- '19.7 Presidential Early Career Award for Scientists and Engineers (PECASE), USA
- '17.5 Carnegie Science Award, Advanced Manufacturing & Materials Award, USA
- '16.11 AECOM Excellence Awards, Winner in the "Dream" Category, USA
- '16.5 Carnegie Science Award, Innovation in Energy Award, USA
- '15.5 Energy Leadership Awards, Manufacturing Category (Pittsburgh), USA