

Curriculum Vitae

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Professor

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✧ **Education**

2002 – 2006: Ph.D. in Materials Science and Engineering, Pennsylvania State University

2000 – 2002: M.S. in Materials Science and Engineering, Seoul National University

1993 – 2000: B.S. in Inorganic Materials Engineering, Hanyang University

✧ **Work Experiences**

03/2019-Present: Professor, Department of Materials Engineering, Korea Aerospace University

03/2014-02/2019: Associate Professor, Department of Materials Engineering, Korea Aerospace University

08/2014-08/2015: Adjunct Faculty, Materials Research Institute, Pennsylvania State University, USA

03/2008-02/2014: Assistant Professor, Department of Materials Engineering, Korea Aerospace University

02/2007-03/2008: Researcher, Energy Systems Division, Argonne National Laboratory, USA

01/2006-02/2007: Post-doctoral researcher, Materials Research Institute, Pennsylvania State University, USA

✧ **Research Fields**

- Material systems

- Materials system for energy storage applications special emphasis on Dielectric, Ferroelectric, and Piezoelectric materials and related composites.
- Carbide ceramics, thin films, and related composites for aerospace applications.

- Material Processing

- Low temperature processing for ceramics and related nano-composites.
- Thin film processing for dielectric thin layers, E-field assisted thin film processing - Electro spray, Electro spin, Electrophoretic deposition.

- Characterizations

- Dielectric and piezoelectric characterizations for ceramic-based thin layers
- Thermomechanical and optical characterizations for high temperature ceramic composites.

✧ **Professional Activities**

- Board of Director: Materials Research Society Korea, Korean Ceramic Society
- International Committee: IEEE-UFFC
- Committee: Korean Council of Science Editors (KCSE)
- Editorial: Journal of Electroceramics (2013-present)