

NANO KOREA 2020

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EDUCATION

Tokyo Institute of Technology	Ph.D	Materials Science & Engineering	2000
Seoul National University	Ph.D	Chemistry	1999
Seoul National University	MS	Chemistry	1994
Sook-Myoung Women's University	BS	Chemistry	1991

PROFESSIONAL ACTIVITIES

- Professor, Department of Chemical Engineering & Applied Chemistry, Chungnam National University, Republic of Korea, January 2006 to Present.
- Postdoctoral Research Staff Member, Energy & Environment Directorate, Lawrence Livermore National Laboratory, USA, February 2004 to October 2005.
- Postdoc Fellow, Environmental Energy Technology Division, Lawrence Berkeley National Laboratory, USA, October 2000 to January 2004.

AWARD AND HONORS

- Chungnam National University President's excellence award (January 2020).
- Korean Battery Conference's excellent paper award (May 2019).
- Korea Electrochemical Society's excellent paper award (April 2014).

MAIN SCIENTIFIC PUBLICATION

- Fluorinated polyimide as a novel high-voltage cathode binder of lithium-ion batteries, *Advanced Functional Materials*, 28, 1704690 (2018).
- Magnesium stannide as a high-capacity anode material for magnesium-ion batteries, *Journal of Power Sources*, 368, 11 (2017).
- Performance enhancement of 4.8V $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$ battery cathode using fluorinated linear carbonate as a high-voltage additive, *Journal of the Electrochemical Society*, 161, A2002 (2014).

RESEARCH INTERESTS

- Lithium-ion batteries, Post-lithium (Magnesium-ion, Lithium-sulfur, Aqueous) batteries, SEI and interface control
- Electrochemistry, Solid-state chemistry, Surface chemistry