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EDUCATION

University of Minnesota	Ph.D	Chemical Engineering	**2011**
Seoul National University	BS	Chemical and Biomolecular Engineering	**2006**

PROFESSIONAL ACTIVITIES

- Associate Professor, Department of Chemical and Biomolecular Engineering, Sogang University, Korea, March 2019 to present
- Associate/Assistant Professor, Department of Chemical Engineering, Soongsil University, Korea, March 2012 to February 2019
- Postdoctoral Researcher, Department of Physics and Astronomy, Seoul National University, Seoul, November 2011 to February 2012

AWARD AND HONORS

- 2013 Soongsil Fellowship Professor
- 2010-2011 University of Minnesota Doctoral Dissertation Fellowship

MAIN SCIENTIFIC PUBLICATION

- Light-emitting Devices Based on Electrochemiluminescence Gels *Adv. Funct. Mater.* 2020, 1907936
- Universal Route to Impart Orthogonality to Polymer Semiconductors for Submicron Tandem Electronics *Adv. Mater.* 2019, 1901400
- Electrically Controllable Molecularization of Terahertz Meta-Atoms *Adv. Mater.* 2018, 30, 1802760
- Lead-Free Perovskite Nanocrystals for Light-Emitting Devices *J. Phys. Chem. Lett.* 2018, 9, 1573
- Assemblies of Colloidal CdSe Tetrapod Nanocrystals with Lengthy Arms for Flexible Thin-Film Transistors *Nano Lett.* 2017, 17, 2433

RESEARCH INTERESTS

- Patterning of solution-processible electronic/ionic materials (quantum dot, polymer semiconductors, electrolyte)
- Physical characteristics of electronic/ionic materials (charge transport, electrochemiluminescence)
- Optoelectronic devices (light-emitting diodes, thin film transistors)