

Dong Hoe Kim

Department of Nanotechnology & Advanced Materials Engineering

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EDUCATION

- 03/2008-02/2015 **Ph.D.** in Materials Science and Engineering,
Seoul National University, Seoul, Korea
Advisor: Prof. Kug Sun Hong (the late) and Prof. Ki-Bum Kim
Dissertation: “Controlling Light Harvesting and Charge Collection Properties of Titanium Oxide Semiconductor for Improving Photovoltaic Device Performance”
- 03/2003-02/2008 **B.S.** in Materials Science and Engineering,
Seoul National University, Seoul, Korea
Advisor: Prof. Jung-Joong Lee

RESEARCH EXPERIENCES

- 03/2019-Present **Assistant Professor**,
Department of Nanotechnology & Advanced Materials Engineering
Sejong University, Seoul Republic of Korea.
- 02/2018-02/2019 **Researcher III**, Chemistry & Nanoscience Center
National Renewable Energy Laboratory, CO USA.
- 04/2015-02/2018 **Postdoctoral researcher**, Chemistry & Nanoscience Center
National Renewable Energy Laboratory, CO USA. (Advisor: Dr. Kai Zhu)

RESEARCH INTERESTS

Design and synthesis of organic-inorganic perovskite

- Synthesis of perovskite thin film for highly efficient solar cells
- Control of perovskite composition to change bandgap for tandem device
- Developing perovskite ink for large area solar module

Investigation of electrophysical properties in nano-scale semiconducting materials

- Charge-carrier transport/transfer engineering through materials engineering

Energy conversion devices

- Solar cells
- Other sustainable energy conversion devices (e.g., PEC and LIBs)