

# 김한수

김한수는 서울캠퍼스 [공과대학 에너지공학과](#) 교수이자, [AETL](#) 실장 및 [BK21플러스사업단](#)장을 겸임하고 있다.

에너지공학과 홈페이지 참고(2019.10.)

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## 학력

- Ph.D. Mineral and Petroleum Engineering, Seoul National University 2000
- M. S. Mineral and Petroleum Engineering, Seoul National University 1996
- B. S. Mineral and Petroleum Engineering, Seoul National University 1994

## 경력

- 2011 Present, Associate Professor, Department of Energy Engineering, Hanyang University
- 2001- 2011 Member of Research Staff, Battery Group, Energy Lab, Samsung Advanced Institute of Technology

## 연구관심분야

High Capacity Anode Materials for Lithium-ion Batteries, Nanostructured Materials for Energy Storage, Inkjet Printing Enabled Energy Storage/Conversion Devices

## 주요연구과제

- Development of Si Based High Capacity Anode Materials for Lithium-Ion Batteries, Green Electrochemical Process of Metal Recovery Using Ionic Liquid, Metal Oxide Anode Materials for Lithium Ion Batteries.

## 주요논문

- 1. Discovery of abnormal lithium storage sites in molybdenum dioxide electrodes, Nature Comm., 2016, 7, 11049
- 2. Discovering Dual-Buffer Effect on Lithium Storage: Durable Nanostructure of Ordered Mesoporous Co-Sn Intermetallic Electrode, Adv. Func. Mater., 2016, 26, 2800
- 3. Dual-Size Silicon Nanocrystal-Embedded SiO<sub>x</sub> Nanocomposite as a High-Capacity Lithium Storage Material, ACS Nano, 2015, 9, 7690
- 4. Highly Cyclable Lithium-Sulfur Batteries with a Dual-Type Sulfur Cathode and a Lithiated Si/SiO<sub>x</sub> Nanosphere Anode, Nano Letters, 2015, 15, 2863
- 5. Nanotechnology enabled rechargeable Li-SO<sub>2</sub> batteries: another approach towards post-lithium-ion battery systems”, Energy & Environ. Sci. 2015, 8, 3713
- 6. In Operando Monitoring of the Pore Dynamics in Ordered Mesoporous Electrode Materials by Small Angle X-Ray Scattering, ACS Nano, 2015, 9, 5470

## 저서

## 수상

## 언론 활동