

## Hyun Suk Jung

### EDUCATION

2004 Ph.D. Materials Science and Engineering, Seoul National Univ., Seoul, Korea, February  
1999 M.S. Inorganic Materials Engineering, Seoul National Univ., Seoul, Korea, February  
1997 B.S. Inorganic Materials Engineering, Seoul National Univ., Seoul, Korea, February

### PROFESSIONAL EXPERIENCES

09/2013-present Associate Professor, Sungkyunkwan University, Korea  
09/2006-08/2011 Assistant Professor, Kookmin University, Korea  
04/2005-08/2006 Director's Funded Postdoctoral Fellow, Los Alamos National Laboratory, USA  
03/2004-03/2005 Postdoctoral Scholar, Research Institute of Advanced Materials, Seoul National University, Korea

### Five Recent Publications representative related to the proposed work

- 1) Jong Hoon Park, Dong Hoe Kim, Seong Sik Shin, Hyun Soo Han, Myeong Hwan Lee and Hyun Suk Jung, Jun Hong Noh, Kug Sun Hong "A Hierarchically Organized Photoelectrode Architecture for Highly Efficient CdS/CdSe-Sensitized Solar Cells" *Adv. Energy Mater.*, **4**, 1300395 (2014)
- 2) Sangwook Lee, Ik Jae Park, Dong Hoe Kim, Won Mo Seong, Dong Wook Kim, Gil Sang Han, Jin Young Kim, Hyun Suk Jung and Kug Sun Hong "Crystallographically preferred oriented TiO<sub>2</sub> nanotube arrays for efficient photovoltaic energy conversion" *Energy Environ. Sci.*, **5**, 7989 (2012)
- 3) Jun Hong Noh, Hyun Soo Han, Sangwook Lee, Jin Young Kim, Kug Sun Hong, Gil Sang Han, Hyun Jung Shin, and Hyun Suk Jung "Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection" *Adv Energy Mater.*, **1**, 829–835 (2011)
- 4) Se Hoon Han, Sang wook Lee, Hyun Jung Shin, and Hyun Suk Jung "A Quasi-Inverse Opal Layer Based on Highly Crystalline TiO<sub>2</sub> Nanoparticles: A New Light-Scattering Layer in Dye-Sensitized Solar Cells" *Adv Energy Mater.*, **1**, 546–550 (2011)
- 5) Bo Ding, Bong Jae Lee, Mengjin Yang, Hyun Suk Jung, and Jung Kun Lee "Surface-Plasmon Assisted Energy Conversion in Dye-Sensitized Solar Cells" *Adv Energy Mater.*, **1**, 415–421 (2011)

### Awards

1. Director's postdoctoral fellowship, Los Alamos National Lab. (2005)
2. Top 50 outstanding research achievements, Ministry of Science and Education (2012)
3. Minister award, Ministry of Future Creation and Science (2013)
4. Outstanding research award, KIST (2013)

### Publications, Patents, Dissertations, and Theses

Holder of about 30 Patents; author or co-author of over 113 peer-reviewed journal papers

Graduate Advisors Prof. K.S. Hong, Seoul National University

Post Graduate Advisor Dr. Michael Nastasi & Dr. J. K. Lee, Los Alamos National Laboratory