

Dr. Hyun Suk Jung

School of Advanced Materials Science and Engineering
Sungkyunkwan University, Korea
Professor

Research field: Perovskite Solar Cell, Flexible Solar Cell, Hydroxyapatite Materials, Water Splitting,

Qualifications

2019-present SKKU Young Fellow Professor, Korea
2017-present Professor, Sungkyunkwan University, Korea
2011-2017 Associate Professor, Sungkyunkwan University, Korea
2006-2011 Assistant Professor, Kookmin University, Korea
2005-2006 Director's Funded Postdoctoral Fellow, Los Alamos National Laboratory, USA
2004-2005 Postdoctoral Scholar, Research Institute of Advanced Materials, Seoul National University, Korea
1999-2004 Ph.D. Materials Science and Engineering, Seoul National Univ., Seoul, Korea, February
1997-1999 M.S. Inorganic Materials Engineering, Seoul National Univ., Seoul, Korea, February
1993-1997 B.S. Inorganic Materials Engineering, Seoul National Univ., Seoul, Korea, February

Publications (selected)

- 1) Byeong Jo Kim, Dong Hoe Kim, Seung Lee Kwon, So Yeon Park, Zhen Li, Kai Zhu and Hyun Suk Jung, "Selective dissolution of halide perovskites as a step towards recycling solar cells " Nature Communications 7, 11735 (2016)
- 2) Byeong Jo Kim, Dong Hoe Kim, Yoo-Yong Lee, Hee-Won Shin, Gill Sang Han, Jung Sug Hong, Khalid Mahmood, Tae Kyu Ahn, Young-Chang Joo, Kug Sun Hong, Nam-Gyu Park, Sangwook Lee and Hyun Suk Jung, "Highly Efficient and Bending Durable Perovskite Solar Cells: Toward Wearable Power Source" Energy Environ. Sci., 8, 916 (2015)
- 3) 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 TiO₂ nanotube arrays for efficient photovoltaic energy conversion" Energy Environ. Sci., 5, 7989 (2012)
- 4) 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)
- 5) Se Hoon Han, Sang wook Lee, Hyun Jung Shin, and Hyun Suk Jung "A Quasi-Inverse Opal Layer Based on Highly Crystalline TiO₂ Nanoparticles: A New

Light-Scattering Layer in Dye-Sensitized Solar Cells" Adv Energy Mater., 1, 546–550 (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)
5. Young ceramist award, Korean Ceramic Society (2017)
6. SKKU Young Fellow Professor, SKKU (2019)

Personal Website: <http://eenl.skku.edu>