

NANO KOREA 2019

July 3~5, KINTEX, Korea

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EDUCATION

Northwestern University	Ph.D.	Materials Science & Engineering	2012
Yonsei University	M.S.	Materials Science & Engineering	2006
Yonsei University	B.S.	Materials Science & Engineering	2004

PROFESSIONAL ACTIVITIES

- Director, Center for Multi-dimensional Materials, Yonsei University (2018 to present)
- IBS Professor, Yonsei-IBS Center for Nanomedicine, Yonsei University (2018 to present)
- Associate Professor, Yonsei University (2018 to present)
- Assistant Professor, Yonsei University (2014 to 2018)
- Postdoctoral Fellow, Harvard University (2012 to 2014)
- Researcher, Institute of Steel, Yonsei University (2006 to 2007)

AWARD AND HONORS

- Outstanding Teaching Award, Yonsei University (2019)
- Excellence Young Professor Award, Yonsei University (2019)
- National Research Top 50 Excellency Award, Ministry of Education (2018)
- National Research and Development Top 100 Excellency Award, Ministry of Science and ICT (2018)
- Mid-Career Professor Award, Yonsei University (2018)
- Outstanding Young Investigator Award, The Korean Institute of Metals and Materials (2017)
- Outstanding Teaching Award, Yonsei University (2015)
- Excellence Graduate Award, Northwestern University (2012)

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MAIN SCIENTIFIC PUBLICATION

- Megahertz-wave-transmitting conducting polymer electrode for device-to-device integration.
Nature Communications **10**, 653 (2019)
- Transparent, Flexible, Conformal Capacitive Pressure Sensors with Nanoparticles.
Small **14**, 1703432 (2018)
- Shape-reconfigurable Aluminum-air Batteries.
Advanced Functional Materials **27**, 1702244 (2017)
- Rough-Surface-Enabled Capacitive Pressure Sensors with 3D Touch Capability.
Small **13**, 1700368 (2017)
- Spatially Pressure-Mapped Thermochromic Interactive Sensor.
Advanced Materials **29**, 1606120 (2017)
- Wave-tunable lattice equivalent toward micro- and nanomanipulation.
Nano Letters **16**, 6472 (2016)
- Programmable resistive-switch nanowire transistor logic circuits.
Nano Letters **14**, 5430 (2014)
- Plow and ridge nanofabrication.
Small **9**, 3058 (2013)
- Multifunctional graphene-coated scanning probe arrays.
Proc. Natl. Acad. Sci. USA **109**, 18312 (2012)
- Hard-tip, soft-spring lithography.
Nature **469**, 516 (2011)
- On-film formation of Bi nanowires with extraordinary electron mobility.
Nano Letters **9**, 18 (2009)

RESEARCH INTERESTS

- Functional Material Synthesis and Characterizations
- Device Fabrication and Measurement