

NANO KOREA 2020

July 1~3, KINTEX, Korea

Unyong Jeong

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EDUCATION

POSTECH	Ph.D	Chemical Engineering	2003
POSTECH	MS	Chemical Engineering	2000
POSTECH	BS	Chemical Engineering	1998

PROFESSIONAL ACTIVITIES

- Associate Editor, *Materials Advances* (2020.02 – present)
- Associate Editor, *Journal of Materials Chemistry C* (2019.02 – present)
- Professor, POSTECH, Pohang, Korea (2016.03 – present)
- Associate Professor, POSTECH, Pohang, Korea (2010.03 – 2015.02):
- Associate Professor, MS&E, Yonsei University, Seoul, Korea (2010.03 – 2015.02)
- Assistant Professor, MS&E, Yonsei University, Seoul, Korea (2006.03 – 2010.02)
- Post-doc, Chemistry, University of Washington, Seattle, USA (2003.11 – 2005.12)

AWARD AND HONORS

- Associate Member of Korean Academy of Science and Technology (KAST) (2015.05)
- Se-ah Young Distinguished Professor (2015.05)
- Asia Outstanding Lectureship Award by Japanese Chemical Society (2013.03)
- Young Scientist Award by the Korean President (2011.12)

MAIN SCIENTIFIC PUBLICATION

- 2D Percolation Design of Conductive Microparticles for Sensitive Low-Strain in a Stretchable Sensor, *Adv. Funct. Mater.*, 2020, on-line published.
- Transparent Flexible Nanoline Field-Effect Transistor (NL-FET) Array with High-Integration in Large-Area, *ACS Nano* **2020**, doi.org/10.1021/acsnano.9b08199
- Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres, *Acc. Chem. Res.* **2019**, 52, 3475-3487.
- Fabrication of Foldable Metal Interconnections by Hybridizing with Amorphous Carbon Ultrathin Anisotropic Conductive Film, *ACS Nano* **2019**, 13, 7175-7184.
- Microparticle-Based Soft Electronic Devices: Toward One-Particle/One-Pixel, *Adv. Funct. Mater.* **2019**, 1901810.

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- Block Copolymer Elastomers for Stretchable Electronics, *Acc. Chem. Res.* **2019**, 52, 63–72.
- Stretchable Triboelectric Multimodal Tactile Interface Simultaneously Recognizing Various Dynamic Body Motions, *Nano Energy* **2019**, 56, 347-356.
- Lipids: Source of Static Electricity of Regenerative Natural Substances and Nondestructive Energy Harvesting, *Adv. Mater.* **2018**, 30, 1804949.
- Hygroscopic Auxetic On-Skin Sensors for Easy-to-handle Repeated Daily Uses, *ACS Appl. Mater. Interface* **2018**, 10, 40141–40148.
- Output Voltage Modulation in Triboelectric Nanogenerator by Printed Ion Gel Capacitors, *Nano Energy* **2018**, 58, 367-374.
- Adding a Stretchable Insulating Interlayer to Realize High-Performance Stretchable Triboelectric Nanogenerators, *Nano Energy* **2018**, 50, 192-200.
- Metal Deposition on a Surface Microfibrils Network for Stretchable Tactile Sensor Arrays, *Adv. Mater.* **2018**, 30, 1801408.
- E-skin Tactile Pressure Sensor Matrix Pixelated by Position-Registered Conductive Microparticles Creating Pressure-Sensitive Selector, *Adv. Funct. Mater.* **2018**, 28, 1801858.
- Synthesis of Two-Dimensional (2D) Metal Chalcogenide Thin Films via Solution-Phase Deposition, *Adv. Mater.* **2018**, 30, 1707577.
- Effect of Ion Migration in Electro-Generated Chemiluminescence Depending on Luminophore Types and Operating Conditions, *Chemical Science*, **2018**, 9, 2480 – 2488.

RESEARCH INTERESTS

- **Inorganic Nanostructured Materials**
Synthesis of Inorganic Nanostructured Materials
Application of Inorganic Nanostructured Materials
- **Hybrids of Organic/Inorganic Nanostructured Materials**
Synthesis of Hybrid Materials
Flexible, Stretchable Electronic Devices
Patterning of Functional Hybrid Materials