

# NANO KOREA 2020

## July 1~3, KINTEX, Korea

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### Yong-Sang Ryu

Senior researcher, Korea Institute of Science and Technology,

**Address:** Seoul 02792, Sungbuk hwarangro 14 gil 5, Republic of Korea

**Telephone:** (+82)2-958-6982

**Fax:** -

**E-mail:** ysryu82@kist.re.kr

**Nationality:** Republic of Korea

**Web:** <https://sites.google.com/view/theyyugroup>

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### *EDUCATION*

Seoul National Univ., Korea	Ph.D	Electrical Engineering	<b>2013</b>
Seoul National Univ., Korea	MS	Electrical Engineering	<b>2009</b>
Seoul National Univ., Korea	BS	Electrical Engineering	<b>2003</b>

### *PROFESSIONAL ACTIVITIES*

- Senior Research Scientist, Korea Institute of Science and Technology (KIST) (2016, Oct.- Current)
- Post-Doctoral Fellow, Dept. of Electrical Engineering, University of Minnesota, Twin Cities, U.S.A (Sept, 2013 – Sept. 2016)

### *MAIN SCIENTIFIC PUBLICATION*

- "Kinetics of Lipid Raft Formation at Lipid Monolayer-bilayer Junctions Determined by Surface Plasmon Resonance", **Biosens Bioelectron.** 2019, 142, 111568.
- "Highly Sensitive Color-Tunability by Scalable Nanomorphology of Dielectric Layer in Liquid Permeable Metal-Insulator-Metal Structure", **ACS Appl. Mater. Interfaces**, 2018. 10, 44, 38581.
- "Lipid membrane deformation accompanied by disk-to-ring shape transition of cholesterol-rich domains", **J. Am. Chem. Soc.** 2015, 137 (27), pp 8692.
- "Reconstituting ring-rafts in bud-mimicking topography of model membranes" **Nat. Comm.** 2014, 5, 4509.

### *RESEARCH INTERESTS*

- Optoelectronics, Biosensor, Nanobio sensor, MEMS, Nanophotonics