

NANO KOREA 2020

July 1~3, KINTEX, Korea

Sejeong Kim

Research Fellow, University of Technology Sydney

Address: Broadway, Ultimo, Sydney 2007, NSW, Australia

Telephone: (+61)0450856505

E-mail: sejeong85@gmail.com

Nationality: Republic of Korea

Web: <https://sites.google.com/view/sejeong/news>

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)	Ph.D	Physics	2014
Korea Advanced Institute of Science and Technology (KAIST)	MS	Physics	2010
Sogang University, Seoul, Korea	BS	Physics	2009

PROFESSIONAL ACTIVITIES

- 2020 APL Photonics Early Career Editorial Advisory Board
- 2020 International Conference on the Physics of Semiconductors (ICPS) Ambassador
- 2020 OSA Sydney Local Section Committee Treasurer
- 2020 Photonics Online Meetup Sydney-hub host
- 2019 OSA Sydney Local Section Committee Secretary
- 2019 Optical Materials Express Feature Editor (2019) "Materials and Devices for Quantum Photonics"

AWARD AND HONORS

- 2019 University of Technology Sydney Early Career Research Excellence Award Finalist
- 2018 Excellence Award for a Young Scientist, awarded by the Korea Federation of Women's Science & Technology Association
- 2017 Best Emerging Scientist Award in Photonics and Quantum Electronics, awarded by Korean Physical Society
- 2015 Korea Basic Science Institute (KBSI) Science Imaging Contest Winner
- 2015 International Year of Light Optical Image Contest 1st prize, awarded by Optical Society of Korea
- 2014 20th Samsung Human-Tech Best Paper Award Silver prize awarded by Samsung
- 2012 The Best Paper Award awarded by Optical Society of Korea
- 2011 The Best Poster Award in International Nano-Optoelectronics Workshop, 3rd prize

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MAIN SCIENTIFIC PUBLICATION

- S. Kim*, †, N. M. H. Duong*, M. Nguyen, T.-J. Lu, M. Kianinia, N. Mendelson, A. Solntsev, C. Bradac, D. R. Englund, and I. Aharonovich†, “Integrated on Chip Platform with Quantum Emitters in Layered Materials”, *Advanced Optical Materials* 1901132, 2019.
- S. Kim*, †, J. E. Fröch*, J. Christian, M. Straw, J. Bishop, D. Totonjian, K. Watanabe, T. Taniguchi, M. Toth† and I. Aharonovich†, “Photonic crystal cavities from hexagonal Boron Nitride” *Nature Communications* 9, 2623, 2018.
- J. E. Fröch*, Y. Hwang*, S. Kim†, I. Aharonovich, M. Toth, “Photonic nanostructures from hexagonal boron nitride” *Advanced Optical Materials* 1801344, 2018.

RESEARCH INTERESTS

- Photonic cavities made of two-dimensional (2D) layered materials for quantum photonics and nonlinear optics applications
- Semiconductor photonic crystal lasers for telecom light sources and sensor applications
- Plasmonics aimed at tailoring the emission properties of single photon sources
- Optical vortices creation using liquid crystal and analysis