

NANO KOREA 2020

July 1~3, KINTEX, Korea

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EDUCATION

Japan Advanced Institute of Science and Technology (JAIST)	Ph.D	Materials Science	2001
Japan Advanced Institute of Science and Technology (JAIST)	MS	Materials Science	1998
Shinshu University, Nagano, Japan	BS	Physics	1996

PROFESSIONAL ACTIVITIES

- Professor, Department of Applied Physics, Nagoya University, Japan, March 2016 to Present.
- Professor, Department of Applied Physics, Waseda University, Japan, April 2013 to February 2016.
- Associate Professor, Department of Applied Physics, Waseda University, Japan, April 2010 to March 2013.
- Associate Professor, Institute for Materials Research, Tohoku University, Japan, November 2007 to March 2010.
- Assistant Professor, Institute for Materials Research, Tohoku University, Japan, December 2001 to December 2007.
- Researcher, Frontier Science Lab, Sony Corporation, Japan, April 2001 to October 2001

AWARD AND HONORS

- Young Scientist Award of the Physical Society of Japan (2010)
- Research Award of the Funai Foundation for Information Technology (2008)
- The Japan Society of Applied Physics (JSAP) Outstanding Paper Award (2007)
- Young Scientist Presentation Award of JSAP (2006)
- Daiwa Adrian Prize (2004)
- Harada Young Research Award (2004)

MAIN SCIENTIFIC PUBLICATION

- Thermoelectric properties of a semicrystalline polymer doped beyond the insulator-to-metal transition by electrolyte gating, *Science Advances*, 6, eaay8065-1-8, 2020

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- 2D Materials for Large - Area Flexible Thermoelectric Devices (invited review), *Advanced Energy Materials*, 1902842, 2019
- Exciton Polarization and Renormalization Effect for Optical Modulation in Monolayer Semiconductors, *ACS Nano*, 13, 8, 9218-9226, 2019
- Two-dimensional ground-state mapping of a Mott-Hubbard system in a flexible field-effect device, *Science Advances*, 5, eaav7282, 2019
- Monolayer Transition Metal Dichalcogenides as Light Sources (invited review), *Advanced Materials*, 30, 1707627, 2018
- A versatile and simple approach to generate light emission in semiconductors mediated by electric double layers, *Advanced Materials*, 29, 1606918, 2017
- High Current Injection into Dynamic p-n Homojunction in Polymer Light-Emitting Electrochemical Cells, *Advanced Materials*, 29, 1606392, 2017
- Electron-hole doping asymmetry of Fermi surface reconstructed in a simple Mott insulator, *Nature Communications*, 7, 12356, 2016
- Highly Flexible and High-Performance Complementary Inverters of Large-Area Transition Metal Dichalcogenide Monolayers, *Advanced Materials*, 28(21), 4111–4119, 2016

RESEARCH INTERESTS

- Solid state physics and functional devices of atomically thin materials
- Flexible, stretchable and printable electronics based on organic and nano materials
- Electrical driven organic printed laser device