
Prof. Dr. Yong-Young Noh

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Selected Representative Publication

- Selenium alloyed tellurium oxide for amorphous p-channel transistors, Ao Liu*, Yong-Sung Kim, Min Gyu Kim, Youjin Reo, Taoyu Zou, Taesu Choi, Sai Bai, Huihui Zhu*, **Yong-Young Noh***, Nature, Online, (2024) DOI: <https://www.nature.com/articles/s41586-024-07360-w>
- Tin perovskite transistors and complementary circuits based on A-site cation engineering, Huihui Zhu, Wonryeol Yang, Youjin Reo, Guanhaojie Zheng, Sai Bai, Ao Liu*, **Yong-Young Noh*** Nature Electronics, 6(9), 650-657 (2023)
- High-performance metal halide perovskite transistors, Ao Liu*, Huihui Zhu, Sai Bai, Youjin Reo, Mario Caironi, Annamaria Petrozza, Letian Dou, **Yong-Young Noh***, Nature Electronics, 6(8), 559-571 (2023)
- High-Performance Inorganic Metal Halide Perovskite Transistors, Ao Liu, Huihui Zhu, Sai Bai, Youjin Reo, Taoyu Zou, Myung-Gil Kim, **Yong-Young Noh***, Nature Electronics 5(2), 78-83 (2022)
- Neuromorphic computing based on halide perovskites, Maria Vasilopoulou*, Abd Rashid bin Mohd Yusoff, Yang Chai, Michael-Alexandros Kourtis, Toshinori Matsushima, Nicola Gasparini, Rose Du, Feng Gao, Mohammad Khaja Nazeeruddin, Thomas D Anthopoulos*, **Yong-Young Noh***, Nature Electronics 6(12), 949-962 (2023)

For full list of publication: [Semiconductor Materials and Devices Laboratory \(postech.ac.kr\)](https://www.postech.ac.kr/), [Yong-Young Noh \(0000-0001-7222-2401\) \(orcid.org\)](https://orcid.org/0000-0001-7222-2401), [Yong-Young Noh \(노용영\) - Google 학술 검색](#)

RESEARCH INTERESTS

- Emerging P-TYPE semiconductors (Halide perovskite, Metal oxide, Metal chalcogenide, and 2D Layered materials for Thin-Film Transistors applications)
- Emerging P-TYPE semiconductors for LEDs applications

EDUCATION

GIST, Gwangju, Korea	Ph.D,	Materials Sci. & Eng.	2005
GIST, Gwangju, Korea	MS	Materials Sci. & Eng.	2002
Dongguk University, Seoul, Korea	BS	Chemical Engineering	2000

PROFESSIONAL ACTIVITIES

- Associate Professor, Department of Energy and Materials Engineering, Dongguk University, Korea, Mar.2013~Jan.2019
- Assistant Professor, Department of Chemical Engineering Hanbat National University, Korea, Sep.2009~Feb.2013

- Senior Research Fellow, Conv. Comp. & Mater Lab
ETRI, Korea, Jan.2008~Aug.2009
- Postdoctoral Associate, Cavendish Lab, Department of Physics
University Cambridge, UK, Sep.2005 ~ Dec.2007
Supervisor: Prof. Henning Sirringhaus

AWARD AND HONORS

- POSTECH Muenjae Chair Professor,
- Korea Science Medal (도약장), April 2024
- Merck Award, Aug 2022
- UDC Pioneer Awards, Aug 2020
- Korean Scientists Awards from Korean Government, Sep 2016
- Korea President Award, April 2014
- George E. Smith Award from IEEE EDS, Dec 2014
- Merck Young Scientist Award, Aug 2013