

Curriculum Vitae

Junghwan Kim (1985.03.22)



■ EXPERIENCE

- 2023.01~, Assistant professor, Graduate School of Semiconductor Materials and Devices Engineering, UNIST
- 2023.01~, Specially appointed Associate Professor, MDX research center for Element Strategy, Tokyo Institute of Technolog
- 2016.04~2022.12, Assistant Professor (Full-time faculty), Materials Research Center for Element Strategy, Tokyo Institute of Technology
- 2021.10~, PRESTO Researcher, JST
- 2021.12~, Adjunct Professor, Department of Chemical Engineering, POSTECH
- 2019.04~2021.03, Visiting Researcher, National Institute for Materials Science (NIMS)

■ EDUCATION

- 2014.04~2016.03, Innovative and Engineered Materials, Tokyo Institute of Technology (Doctor of Engineering)
- 2012.10~2014.03, Innovative and Engineered Materials, Tokyo Institute of Technology (Master of Engineering)
- 2005.03~2012.08, Electrical and Computer Engineering, Ajou University (Bachelor of Engineering)

■ BOOK

- J. Kim**, H. Hosono. State-of-the-Art Organic Light-Emitting Diodes: Fundamental Physics, Materials Chemistry, Device Applications, and Analysis Techniques. CMC Publishing Co., Ltd.. Apr, 2017.
- J. Kim**, H. Hosono, Carbon-related Impurities and Instability in AOS-TFTs, Amorphous Oxide Semiconductors: IGZO and Related Materials for Display and Memory, 333-340, Wiley, 2022.
- J. Kim**, H. Hosono, Application of AOSs to Charge Transport Layers in Electroluminescent Devices, Amorphous Oxide Semiconductors: IGZO and Related Materials for Display and Memory, 585-596, Wiley, 2022.

■ AWARD

- 2022.04 Minister of Education, Culture, Sports, Science and Technology, The Young Scientists' Award
- 2020. 06 Tokyo Tech Challenging Research Award
- 2017.02 Inoue Research Award for Young Scientists
- 2016.09 Young Scientist Award, The Japan Society of Applied Physics

■ Committee

2017.01~ Society for Information Display (SID), Asian Committee.

2017.10~ Active-Matrix Flat-panel Displays and Devices (AM-FPD), Program Committee.

2020.01~ International Meeting on Information Display (IMID), Program Committee.

■ Selected Papers

- **Nature Electronics (IF: 33.255)** “Mobility-Stability Trade-off in Oxide TFTs” (2021) [Corresponding Author]
- **Advanced Materials (IF: 32.086)** “A Highly Efficient and Stable Blue-Emitting $\text{Cs}_5\text{Cu}_3\text{Cl}_6\text{I}_2$ with a One-Dimensional Chain Structure” (2020) [Corresponding Author]
- **Advanced Materials (IF: 32.086)** “Lead-free Highly Efficient Blue-emitting $\text{Cs}_3\text{Cu}_2\text{I}_5$ with 0D Electronic Structure” (2018) [Corresponding Author]
- **Advanced Materials (IF: 32.086)** “Material Design of P-type Transparent Amorphous Semiconductor, Cu-Sn-I” (2018) [Corresponding Author]
- **Applied Physics Reviews (IF: 19.527)** “Performance Boosting Strategy for Perovskite Light-Emitting Diodes” (2019) [Corresponding Author]
- **Advanced Science (IF: 17.521)** “High-Performance P-channel Tin Halide Perovskite Thin Film Transistor Utilizing a 2D-3D Core-shell structure” (2021) [Corresponding Author]