iMiD 2024
The 24th International Meeting on Information Display
August 20-23, 2024 / ICC Jeju, Jeju, Korea

Session Title:	67. Fundamental Studies on TFT Devices
Session Date:	August 23 (Fri.), 2024
Session Time:	14:50-16:15
Session Room:	Room C (Samda)
Chair(s):	Prof. Junghwan Kim (UNIST, Korea)

[C67-1] [Invited] 14:50-15:15

Machine learning Approaches for IGZO Research

Keisuke Ide, Hideo Hosono, and Toshio Kamiya (Tokyo Inst. of Tech., Japan)

[C67-2] 15:15-15:30

Spectroscopic Analysis of the Source-Drain/Channel Interface of Fully Solution Processed Self-Aligned a-InZnO Thin Film Transistors

Krittin Auewattanapun (Nara Inst. of Science and Tech., Japan & Kasetsart Univ., Thailand), Juan Paolo S. Bermundo, Umu Hanifah (Nara Inst. of Science and Tech., Japan), Hideki Nakajima, Wanwisa Limphirat (Synchrotron Light Research Inst. Suranaree, Thailand), Ratchatee Techapiesancharoenkij (Kasetsart Univ., Thailand), and Yukiharu Uraoka (Nara Inst. of Science and Tech., Japan)

[C67-3] 15:30-15:45

Contact-Induced Mobility Enhancement in Oxide Thin-Film Transistors

Oliver Durnan, Reem Alshanbari (Columbia Univ., USA), Hong-rae Cho (Gachon Univ., Korea), Ioannis Kymissis (Columbia Univ., USA), and Chang-Hyun Kim (Univ. of Ottawa, Canada)

[C67-4] 15:45-16:00

What Determines Electron Effective Mass and Structural Stability in Crystalline Semiconductors with $InGaZnO_4$ Isostructures

Tomoya Suzuki, Keisuke Ide, Takayoshi Katase, Hideo Hosono, and Toshio Kamiya (Tokyo Inst. of Tech., Japan)

[C67-5] 16:00-16:15

Oxygen-Related Defect Control Layer for High-Performance a-InZnO Thin-Film Transistors

Ji-Hoon Han, Dong-geun Lee, and Hyun-Jae Kim (Yonsei Univ., Korea)