

IMiD 2025

The 25th International Meeting on Information Display
August 19-22, 2025 / BEXCO, BUSAN, KOREA

Session Title:	45. Emerging Semiconductor Devices
Session Date:	August 22 (Fri.), 2025
Session Time:	09:00–10:30
Session Room:	Room E (311~312)
Session Chair(s):	Prof. Mengwei Si (Shanghai Jiao Tong Univ., China) Dr. Seungjae Moon (UNIST, Korea)

[E45-1] [Invited]	09:00–09:25
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Challenges in Oxide TFTs: Stability, S-Value, Hydrogen, Crystalline or Amorphous, Etc.

Minju Song, Minseok Kyung, Hyoseob Shin, Jiho Yeom, Soohyun Kim, Hyunsoo Kim, Kihoon Lee, Juyeon Chae, Jinho Yun, and Junghwan Kim (UNIST, Korea)

[E45-2] [Invited]	09:25–09:50
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Exploring 2D-Material Electronics: Advanced Computational Techniques from Material Modeling to Device Simulation

Michael Spinazze, Mayuri Sritharan, and Youngki Yoon (Univ. of Waterloo, Canada)

[E45-3] [Invited]	09:50–10:15
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Environment-Aware In-Sensor Reservoir Computing Using WS_2 Memtransistors

Maksim Andreev and Kah-Wee Ang (Nat'l Univ. of Singapore, Singapore)

[E45-4]	10:15–10:30
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Investigation of Carrier Transport Mechanism of Rare Metal-Free Oxide Thin Film Transistors by Thermopower Modulation Analysis

Keizo Kashiba, Juan Paolo S. Bermundo (NAIST, Japan), Yusaku Magari (Hokkaido Univ., Japan), Candell Grace P. Quino (NAIST, Japan), Hiromichi Ohta (Hokkaido Univ., Japan), and Yukiharu Uraoka (NAIST, Japan)