iMiD 2021
The 21st International Meeting on Information Display
August 25-27, 2021 / COEX, Seoul, Korea

Session Title:	[TA1] Oral 10. High Performance Oxide and Si TFT
Session Date:	August 26 (Thursday), 2021
Session Time:	09:00-10:35
Session Room:	Room A (101+102)
Session Chair(s):	Myung-Gil Kim (Sungkyunkwan Univ., Korea) Hyun-Suk Kim (Chungnam Nat'l Univ., Korea)

[TA1-1] [Invited] Off-line / 09:00-09:25

Versatile Design of Oxide Semiconductor by Atomic Layer Deposition for High-Performance, Low-Power TFTs

Min Hoe Cho, Hyunjoo Seul, Jae Seok Hur, and Jae Kyeng Jeong (Hanyang Univ., Korea)

[TA1-2] [Invited] Off-line / 09:25-09:50

Highly Robust IGZO TFTs Using Spreading Currents

Suhui Lee and Jin Jang (Kyung Hee Univ., Korea)

[TA1-3] Off-line / 09:50-10:05

Realization of High-Performance Oxide Thin-Film Transistors with Submicron Channel Length Using Conventional Photolithography Process for High Resolution Active-Matrix Display Backplane

Chihun Sung, Sooji Nam, and Sung Haeng Cho (ETRI, Korea)

[TA1-4] Off-line / 10:05-10:20

Stress Manipulated Metal-Oxide Thin-Film Transistors and Integrated Circuits for Highly Reliable Stretchable Electronics

Kyung-Tae Kim, Seung-Han Kang, Chan-Yong Park, Hunbum Park, and Sung Kyu Park (Chung-Ang Univ., Korea)

[TA1-5] Off-line / 10:20-10:35

Realization of Long-Term Visual Memory Enhanced Amorphous IGZO-Based Optical Synaptic Transistor by Oxide Mesh and Insulator Insertion

Dongwoo Kim, Won Kyung Min, Hyung Tae Kim, Jusung Chung, Min Seong Kim, and Hyun Jae Kim (Yonsei Univ., Korea)

[TA1-6] [Invited] On-line (Pre-recorded) / On-demand

A Technology for the Monolithic Integration of Low-Temperature Polysilicon and Elevated-Metal Metal-Oxide Thin-Film Transistors

Man Wong and Sisi Wang (HKUST, Hong Kong)

[TA1-7] [Invited] On-line (Pre-recorded) / On-demand

Scalable Atomic Layer Deposition for P-Type and N-Type Oxide Semiconductor TFTs

Rebecca L. Peterson, Chris Allemang, Tae Cho, Julia D. Lenef, Jaesung Jo, and Neil P. Dasgupta (Univ. of Michigan, USA)

[TA1-8] [Invited] On-line (Pre-recorded) / On-demand

Novel Oxide TFTs that Show Immunity to Negative Bias Illumination Stress and Short Channel Effect

Aimin Song (The Univ. of Manchester, UK)

[TA1-9] [Invited] On-line (Pre-recorded) / On-demand

Low Cost Amorphous ZnSnO TFT Technology for Large Area Electronics

Shengdong Zhang, Huan Yang, Gang Wang, and Hongyang Zuo (Peking Univ., China)

[TA1-10] On-line (Pre-recorded) / On-demand

Incorporation of Small Radius Metallic Elements for Low Temperature-Processed Amorphous Oxide Thin-Film-Transistors

Jae Sang Heo (Sungkyunkwan Univ., Korea), Seong-Pil Jeon, Chang-Yong Park, Hun Bum Park (Chung-Ang Univ., Korea), Yong-Hoon Kim, Myung-Gil Kim (Sungkyunkwan Univ., Korea), and Sung Kyu Park (Chung-Ang Univ., Korea)