

iMiD 2021

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

Session Title:	[TA4] Oral 19. Functional TFTs and Circuit
Session Date:	August 26 (Thursday), 2021
Session Time:	16:00-17:35
Session Room:	Room A (101+102)
Session Chair(s):	Myung-Gil Kim (Sungkyunkwan Univ., Korea)

[TA4-1] [Invited] Off-line / 16:00-16:25

Negative Differential Resistance and Negative Differential Transconductance: New Switching Behaviors from Heterojunction Devices

Hocheon Yoo (Gachon Univ., Korea)

[TA4-2] [Invited] Off-line / 16:25-16:50

Novel Pixel Circuit for Micro LED Display Suppressing Color Shift

Hwarim Im, Eun Kyo Jung, Sara Hong, Eunho Kim, and Yong-Sang Kim (Sungkyunkwan Univ., Korea)

[TA4-3] Off-line / 16:50-17:05

A New Pixel Circuit for Externally Compensated OLED Display

Kook Chul Moon and Kee Chan Park (Konkuk Univ., Korea)

[TA4-4] Off-line / 17:05-17:20

Bottom Gate-Controlled LTPS TFT Technologies for Improving Device Reliability in AMOLED Displays

Keunwoo Kim, Jaehwan Chu, Hanbit Kim, Sangun Choi, Jaeseob Lee, Dokyeong Lee, Joonwoo Bae, Tienguyen Thanh, Taewook Kang, Hyeyong Chu, Changhee Lee, and Jinoh Kwag (Samsung Display Co., Ltd., Korea)

[TA4-5] Off-line / 17:20-17:35

Alleviation of Hot-Carrier Stress Degradation in Transversely Tensile-Strained p-Channel Poly-Si TFTs Fabricated on Plastic Substrate

Jaeseob Lee, Sanggun Choi, Taewook Kang, Hyeyong Chu, Changhee Lee, and Jinoh Kwag (Samsung Display Co., Ltd., Korea)

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[TA4-6]

On-line (Pre-recorded) / On-demand

Viable Approach to Convert LCD Lines for AMOLED Production: A Proof-of-Concept WOLED Plus Color Filter Display Panel

Xiao Chen (Matriix Tech., USA), Hiromitsu Katsui, Keisuke Kuriyama (JSR Corp., Japan), Wooram Youn, Gyungmin Kim, In Sik Cho, David Cheney, Ramesh Jayaraman, Chris Samouce, Svetlana Vasilyeva, Andrew Rinzler, Max Lemaitre, and Bo Liu (Matriix Tech., USA)

[TA4-7]

On-line (Pre-recorded) / On-demand

Temperature-Compensated Pulse-Width Modulation Using Multimodal Transistors

Eva Bestelink (Univ. of Surrey, UK), Oliver de Sagazan (Univ. of Rennes, France), and Radu A. Sporea (Univ. of Surrey, UK)

[TA4-8] [Invited]

On-line (Pre-recorded) / On-demand

TBA

Wentao Xu (Nankai Univ., China)

[TA4-9] [Invited]

On-line (Pre-recorded) / On-demand

OFET Memory for Selective Light Monitoring

Xu Gao, Zhong-Da Zhang, Jing-Jing Lv, Lin-Xi Zhang, Jian-Long Xu, and Sui-Dong Wang (Soochow Univ., China)

[TA4-10] [Invited]

On-line (Pre-recorded) / On-demand

Design Considerations for μ LED Displays

Lynn Verschueren, Jan Genoe¹, Mauricio Velazquez Lopez, Firat Tankut (imec, Belgium), Wim Van Eessen, Patrick Willem (Barco, Belgium), Wim Dehaene (ESAT, Belgium), and Kris Myny (imec, Belgium)