

IMiD 2021

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

Session Title:	[FC3] Oral 30. Micro-LED Epitaxy, Chip Fabrication, Manufacturing Processes, and Active and Passive Driving Technologies
Session Date:	August 27 (Friday), 2021
Session Time:	14:00-15:40
Session Room:	Room C (104+105)
Session Chair(s):	Dong-Seon Lee (GIST, Korea) Jaekyun Kim (Hanyang Univ., Korea)

[FC3-1] [Invited] On-line (Pre-recorded) / On-demand

Laser-Driven Transfer Printing Techniques for Micro-LED Displays

Chengjun Wang, Hongyu Luo, and Jizhou Song (Zhejiang Univ., China)

[FC3-2] [Invited] On-line (Pre-recorded) / On-demand

GaN-Based Micro-LEDs for Technological Convergence between Displays and Optical Wireless Communications Systems

Martin Dawson, Johannes Herrnsdorf, Jonathan McKendry, Enyuan Xie, Erdan Gu, and Michael Strain (Univ. of Strathclyde, UK)

[FC3-3] [Invited] On-line (Pre-recorded) / On-demand

Direct Red-Emitting InGaN MicroLEDs based on Relaxed InGaN Templates

Lars Samuelson (Lund Univ., Sweden)

[FC3-4] [Invited] On-line (Pre-recorded) / On-demand

Directional GaN Micro-LED for VR/AR Applications

Xuelun Wang (AIST, Japan)

[FC3-5] [Invited] On-line (Pre-recorded) / On-demand

Emerging Field of Quasi-2D Flat Nanocrystal Optoelectronics

Hilmi Volkan Demir (Bilkent Univ., Turkey)

[FC3-6] [Invited] Off-line / 14:00-14:25

Fluidic Self-Assembly of Micro-LED Chips with Shaped Magnetic Heads and InGaP/InAlGaP Red LED with Plasmonic Nanohole Structures: Toward Micro LED Displays

In Hwan Lee (Korea Univ., Korea)

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[FC3-7]

Off-line / 14:25-14:40

Simultaneous Transfer and Bonding (SITRAB) Process for Mini- and Micro-LEDs

Kwang-Seong Choi, Jiho Joo, Gwang-Mun Choi, Ki-seok Jang, Chanmi Lee, Seok Hwan Moon, Ho-Gyeong Yun (ETRI, Korea), Ji-Hoon Choi, Ji-Woong Choi (AQLASER Co., Ltd., Korea), and Yong-Sung Eom (ETRI, Korea)

[FC3-8]

Off-line / 14:40-14:55

Wave Energy Assisted Fluidic Self-Assembly of LED Chips for Display Application

Jejun Ryu, Seounghyun Noh, Changwan Park (Chung-Ang Univ., Korea), Seungje Lee, Younrag Do (Kookmin Univ., Korea), and Jaesoo Yoo (Chung-Ang Univ., Korea)

[FC3-9]

Off-line / 14:55-15:10

An Integrated Scan Driver Circuit based on LTPS TFTs for AM μ LED Displays

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

[FC3-10]

Off-line / 15:10-15:25

A Light-Induced Cu Conductor on Glass Substrates for Thin Film μ LED Application

Jung Ho Shin, Seung Hyung Lee, Jae Hee Lee, Sang Hyun Park, Jungwon Oh, and Keon Jae Lee (KAIST, Korea)

[FC3-11]

Off-line / 15:25-15:40

Surface Passivation of AlGaInP/GaInP Red Micro-LED

Juhyuk Park, Dae-Myeong Geum, Woo Jin Baek, and SangHyeon Kim (KAIST, Korea)

[FC3-12]

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

Critical Challenges in MicroLED Testing and Inspection

David Lewis, Rimma Dechter (InZiv, Israel), Ryan Ley, Matthew Wong (Univ. of California, USA), and Michel Khoury (Applied Materials, USA)