

iMiD 2021

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

Session Title:	[FC2] Oral 27. Manufacturing Technology for Future Display
Session Date:	August 27 (Friday), 2021
Session Time:	11:00-12:25
Session Room:	Room C (104+105)
Session Chair(s):	Ho Jun Kim (Gachon Univ. Korea) Myung Soo Huh (Samsung Display Co., Ltd., Korea)

[FC2-1] [Featured Invited] **On-line (Live Streaming) / 11:00-11:30**

Thin-Film Photodetectors Enabling Infrared Vision in Future Consumer Devices

Paweł E. Malinowski, Jiwon Lee, Epimetheus Georgitzikis, Vladimir Pejovic, Itai Lieberman, Joo-Hyoung Kim, Myung-Jin Lim, Griet Uytterhoeven, Luis Moreno Hagelsieb, TungHuei Ke, Yunlong Li, Renaud Puybaret, Gauri Karve, Tom Verschooten, Steven Thijs, Paul Heremans, and David Cheyns (imec, Belgium)

[FC2-2] [Invited] **Off-line / 11:30-11:55**

Facile Fabrication Process of α -IGZO Thin-Film Transistor Array using Multi level Self-Aligned Imprint Lithography

Changyun Na and Sung Min Cho (Sungkyunkwan Univ., Korea)

[FC2-3] **Off-line / 11:55-12:10**

A Thin Polymer Layer via Initiated Chemical Vapor Deposition for the Encapsulation of High Resolution OLEDs

Byeong Gyu Roh, Seung Chul Park (LG Display Co., Ltd., Korea), Yong Cheon Park, Sung Gap Im (KAIST, Korea), and Ji Ho Baek (LG Display Co., Ltd., Korea)

[FC2-4] **Off-line / 12:10-12:25**

A Study on Crucible Inner Pressure Change during Degradation of Liq

Sungmoon Kim, Taekgi Lee, Daejoon Chi, Gyoung O Ko (Depolab Inc., Korea), Yeonjin Yi, and Junho Kim (Yonsei Univ., Korea)

[FC2-5] [Invited] **On-line (Pre-recorded) / On-demand**

Fundamentals of Semidried Ink Patterning for High-Resolution Printed Electronics

Kusaka Yasuyuki and Fukuda Nobuko (Nat'l Inst. of Advanced Industrial Science and Tech., Japan)

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[FC2-6] [Invited]

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

Highly Flexible TFT Arrays for Sensor Applications

Manabu Ito, Noriaki Ikeda, Chihiro Miyazaki, Yukikazu Tanaka, Kaoru Hatta, and Mamoru Ishizaki (Toppan Printing Co., Ltd., Japan)

[FC2-7] [Invited]

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

Recent Progress of Ultraflexible Organic Solar Cells and Photodetectors

Kenjiro Fukuda and Takao Someya (RIKEN, Japan)

[Invited]

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

Fully-Printed Electronics Using Metal Nanoparticle Inks

Takeo Minari, Lingying Li (Nat'l Inst. for Materials Science, Japan), Qingqing Sun (Zhengzhou Univ., China), Wanli Li (Jiangnan Univ., China), and Xuying Liu (Zhengzhou Univ., China)

[FC2-10]

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

Tunability of PIB-CVD Organosilicon Thin Films on Flexible Substrates

Ravindranath Viswan and David Douglass (Denton Vacuum, USA)

[FC2-11]

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

Cu Process Development 50UD 120Hz LCD TVs Integrated Gate Driver GOA Circuit Using Four-Mask α -Si TFT

Hao Dong, An-thung Cho, Wen-Bing Wu, Yao-Feng Tsai, Yong Zhang, James Hsu, and Wade Chen (ChuZhou HKC Optoelectronics technology Co., Ltd., China)

[FC2-12]

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

Ultra-Precise Deposition for Display Manufacturing: from Rapid Prototyping to Mass Production

Aneta Wiatrowska, Piotr Kowalczewski, Karolina Fiaczyk, Lukasz Witczak, Jolanta Gadzialinska, Mateusz Lysien, Ludovic Schneider, and Filip Granek (XTPL SA, Poland)

[FC2-13]

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

Extremely Precise Laser Glass Cutting Technology for Future Display

Woohyun Jung, Hyungsik Kim, Sunggyu Park, Joongsung Lee, SeungHoon Jang, Junghwa You, Kyunghan Yoo, Jekil Ryu, SeongHo Jeong, and Cheol Lae Roh (Samsung Display Co., Ltd., Korea)

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[FC2-14]

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

Breakthrough Technology; First Plane Source Evaporator for 10,000ppi AMOLED

Changhun Hwang, Sung Su Kim, In Ho Jeong, and Byung Doo Chin (Dankook Univ., Korea)