

IMiD 2021

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

Session Title:	[TA2] Oral 13. Organic TFT and Solution Processed TFT
Session Date:	August 26 (Thursday), 2021
Session Time:	11:00-12:10
Session Room:	Room A (101+102)
Session Chair(s):	Hocheon Yoo (Gachon Univ., Korea)

[TA2-1] [Invited] **Off-line / 11:00-11:25**

Rapid Photochemical Activation for High-Quality Sol-Gel Metal Oxide Dielectrics

Sungjun Park (Ajou Univ., Korea)

[TA2-2] **Off-line / 11:25-11:40**

Enhanced Sensitivity Hybrid Channel Organic Phototransistor with Light-Induced Contact Modulation for Under-Display Applications

Dongho Choi, Haechang Lee, Jaehyeok Park (KAIST, Korea), Hanul Moon (Dong-A Univ., Korea), and Seunghyup Yoo (KAIST, Korea)

[TA2-3] **Off-line / 11:40-11:55**

Improved Charge Transport Behaviour and Trap-State Distribution in Donor-Acceptor Type Semiconducting Copolymer with Fluoropolymer Dielectric Layer

Doyeon Kim and Jiyoul Lee (Pukyong Nat'l Univ., Korea)

[TA2-4] **On-line (Pre-recorded) / On-demand**

Flexible and Printed Active-Matrix TFT Array for Sensor Applications

Sanghoon Baek, Sungju Kim, and Sungjune Jung (POSTECH, Korea)

[TA2-5] **Off-line / 11:55-12:10**

A Novel Fabrication Method of a High Sensitivity and Low Leakage Current Phototransistors based on a Homojunction Porous IGZO Thin-Film Transistors

I Sak Lee, Sujin Jung, Jong Bin An, and Hyun Jae Kim (Yonsei Univ., Korea)

[TA2-6] [Invited] **On-line (Pre-recorded) / On-demand**

Organic Permeable Base Light-Emitting Transistors - An Innovative Device for Active-Matrix Displays

Hans Kleemann, Zhongbin Wu, Erjuan Guo, and Karl Leo (TU Dresden, Germany)

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[TA2-7]

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Insulator-to-Semiconductor Conversion of Solution-Processed Amorphous Gallium Oxide Thin Film Transistor through Hydrogen Annealing

Diki Purnawati, Juan Paolo Bermundo, and Yukiharu Uraoka (Nara Inst. of Science and Tech., Japan)

[TA2-9] [Invited]

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

Field-Effect Transistors based on Solution Processed sp-Hybridized Organic Semiconducting Molecules

Stefano Pecorario (IIT, Italy), Carlo Casari (Politecnico di Milano, Italy), and Mario Caironi (IIT, Italy)

[TA2-10] [Invited]

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

High Performance Organic Field Effect Transistors Developed by Solution Processing

Paddy K. L. Chan (The Univ. of Hong Kong, Hong Kong)

[TA2-11] [Invited]

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

Deep-Subthreshold Ambipolar TFTs for Self-Powered Electronics

Vincenzo Pecunia (Soochow Univ., China)

[TA2-12] [Invited]

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

Polymer Transistors With Sub-Domain-Size Channels

Huabin Sun (Nanjing Univ. of Posts and Telecommunications, China), Dakuang Zhang (Nanjing Univ., China), and Yong Xu (Nanjing Univ. of Posts and Telecommunications, China)

[TA2-13] [Invited]

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

n-Type Polymer Semiconductors Based on Bithiophene Imide

Xugang Guo (Southern Univ. of Sci. and Tech., China)

[TA2-14] [Invited]

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

Foundry-Compatible High-Resolution Patterning of Organic Thin-Film Transistors

Binghao Wang (Southeast Univ., China), Wei Huang (Northwestern Univ., USA), Sunghoon Lee, Tomoyuki Yokota, Takao Someya (The Univ. of Tokyo, Japan), Tobin J. Marks, and Antonio Facchetti (Northwestern Univ., USA)

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Solution-Processable Stretchable Polymer Semiconductor for Field-Effect Transistors

Wen-Ya Lee (Nat'l Taipei Univ. of Tech., Taiwan)

[TA2-16] [Invited]

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

Efficient Doping of Organic Semiconductors for High-Performance Devices

Yuanyuan Hu (School of Physics and Electronics, China)