



제 31회 한국반도체학술대회

The 31st Korean Conference on Semiconductors

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 25일(목), 15:30-17:15

Room B(102), 1층

H. Display and Imaging Technologies 분과

[TB3-H] Display and Imaging Technologies III

좌장: 하만륜 상무(DB하이텍), 이재규 마스터(삼성전자)

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| TB3-H-1 15:30-15:45 | Monolithic Integration of a-IGZO TFT and p-i-n a-Si:H Photodiode for Ultra Flexible and Semi-Transparent Image Sensors Donghyeong Choi ^{1,2} , Jong-Won Yoon ¹ , and Yonghun Kim ¹ ¹ Department of Energy & Electronic Materials, Surface & Nano Materials Division, KIMS, ² School of Materials Science and Engineering, Pusan National University |
| TB3-H-2 15:45-16:00 | Noise Suppression Techniques for Low-Noise CMOS Image Sensors Gihwan Cho, Min-Woong Seo, Masamichi Ito, Sung-Jae Byun, Hyukbin Kwon, Sanggwon Lee, Daehee Bae, Heesung Shim, Jae-Kyu Lee, and Chang-Rok Moon Semiconductor R&D Center, Samsung Electronics Co., Ltd. |
| TB3-H-3 16:00-16:15 | Partitioned CMS 기법을 이용한 저잡음 이미지 센서 윤수연, 김수연 동국대학교 반도체과학과 |
| TB3-H-4 16:15-16:30 | Improvement of Dark Current Caused by Thermionic Emission in Voltage-Domain Global Shutter CMOS Image Sensor Jae-Hoon Jeon, Je-Yeoun Jung, Sangyoon Kim, Seung-Sik Kim, Jae-Kyu Lee, and Chang-Rok Moon Semiconductor R&D Center, Samsung Electronics Co., Ltd. |
| TB3-H-5 16:30-16:45 | Guard-ring Additional Implantation Technique for Reducing Dark Count Rate of Single-photon Avalanche Diode Sang-Hwan Kim, Juhwan Jung, Hangyu Lee, Dongil Kim, Changhun Han, Taewook Kang, Chulwoo Hwang, Harin Kang, Dongha Lee, Manlyun Ha and Yongchan Kim Technology Development Team 4, DB Hitek |
| TB3-H-6 16:45-17:00 | 640 x 480 In-direct Time-of-Flight Sensor 개발을 위한 5.0um Pixel 설계 Jaehyung Jang, Hoon-moo Choi, Jongchae Kim, Kyungsu Byun, Kyundo Kim, Minseok Shin, Hoon-sang Oh, and Chang-rock Song CIS Development, SK hynix Inc. |



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TB3-H-7

17:00-17:15

A Backside-Illumination Technique to Enhance Near-Infrared Photon
Detection Probability of Single-Photon Avalanche Diode

Sang-Hwan Kim, Juhwan Jung, Hangyu Lee, Dongil Kim, Changhun Han, Chulwoo
Hwang, Harin Kang, Dongha Lee, and Manlyun Ha

Technology Development Team 4, DB Hitek