



7th IEEE Electron Devices Technology and Manufacturing (EDTM) Conference 2023

March 7 – 10, 2023 / COEX Seoul, Korea

36B. Detectors and imaging technologies II	
Session Date:	March 9(Thu.),2023
Session Time:	14:45-16:15
Session Room:	Room B (#307 bc)
Session Chair:	Prof. Sang Min Won (Sungkyunkwan University)
	Prof. Jeongkyun Roh (Pusan National University)

[36B-1] [Invited]

14:45-15:10

Solid-State High-Gain Optical Sensors with a Non-Avalanche Approach

Yihong Qi^{1,2}, Chao Gao¹ and Kai Wang^{1,2}

¹Sun Yat-sen University, ²Foshan Retinal Insights Technology Co., Ltd.

[36B-2] [Invited]

15:10-15:35

Enhanced Emission from the Bright Exciton and Locating the Dark Exciton in Strained Compositionally Graded CdSe/CdxZn1-xSe Quantum Dots

Igor Fedin^{1,2}, Mateusz Goryca², Scott Crooker², Victor I. Klimov², Dan Liu² and Sergei Tretiak²

¹The University of Alabama, ²Los Alamos National Laboratory

[36B-3] [Invited]

15:35-16:00

Intelligent Skin Electronics for Healthcare Monitoring and Touch VR

Xinge Yu

City University of Hong Kong

[36B-4]

16:00-16:15

A Backside Trench Guide Enhancing Optical Efficiency of Near-Infrared in CMOS Image Sensor

Hyungjune Yoon, Tae-Ho Lee, Kyungsu Byun, Jaehyun Park, Hyekyung Jung, Heesung Kim, Jinhee Cho, Hun Jeong, Dongho Ha, Hoonmoo Choi, Seunghyun Yoon, Namryeol Kim, Wonje Park, Seonghun Kang, Kyungdo Kim, Kangbong Seo, Hoon-Sang Oh and Chang-Rock Song
SK hynix Inc.