



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

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16B. Detectors and Imaging Technologies I	
Session Date:	March 8(Wed.),2023
Session Time:	15:15-16:50
Session Room:	Room B (#307 bc)
Session Chair	Prof. Ki Jun Yu (Yonsei University)

[16B-1] [Invited] 15:15-15:40

Lead Oxide X-Ray Photoconductive Layers for Application in Direct Conversion Medical Imaging Detectors

Oleksandr Grynko¹ and Alla Reznik^{1,2}

¹Lakehead University, ²Thunder Bay Regional Health Research Institute

[16B-2] [Invited] 15:40-16:05

Broadband Graphene-Silicon Integrated Imagers

Yang Xu, Li Chen, Li Peng, Wenzhang Fang, Yance Chen, Xiaocheng Wang, Yunfan Dong,

Srikrishna Chanakya Bodepudi, Yuda Zhao, Chao Gao and Bin Yu

Zhejiang University

[16B-3] 16:05-16:20

Pb-Free Inorganic Photodetector Arrays for UV-Visible-NIR Spectrum

Mokurala Krishnaiah, Ajit Kumar, Dhananjay Mishra and Sung Hun Jin

Incheon National University

[16B-4] 16:20-16:35

Highly Responsive Ultraviolet Narrowband Organic Photodetector Based on Acceptor Free Photomultiplication: A Smart Approach

Sampati Rao Sridhar, Medha Joshi Pandey and Brijesh Kumar

Indian Institute of Technology Roorkee

[16B-4] 16:35-16:50

A Five-Transistor Active Pixel Sensor with a Wide Dynamic Range and a High-Speed Pixel Operation

Tao Ma¹, Chao Gao¹, Qian Li¹, Yihong Qi², Shaozhi Deng¹ and Kai Wang¹

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