

[TuB3] Optical Devices

Session Date	July 14 (Tue.), 2026
Session Time	14:00–16:00
Session Room	Room B (Baekrok Hall B, 1F)
Session Chairs	Dr. Amélie Dussaigne (CEA-Leti, France), Dr. Michael Jetter (University of Stuttgart, Germany)

[TuB3–1] [Invited]

14:00–14:30

Polarization Manipulation in III-Nitride Light Emitting Devices

Fang Liu¹, Yucheng Guo¹, Zexing Yuan¹, Xin Gao², Zhaoying Chen¹, Ping Wang¹, Hailin Peng², Bo Shen¹, Zhongfan Liu², and Xinqiang Wang¹, ¹Peking University, China, ²Great Bay University, China

[TuB3–2]

14:30–14:45

Impact of Thermal Budget and Carrier Gas Switching on the Performance of Multi-Color Cascaded LEDs

Christoph Berger, Armin Dadgar, Florian Hörich, and André Strittmatter, Otto-von-Guericke-University Magdeburg, Germany

[TuB3–3]

14:45–15:00

MOVPE Growth of Monolithic Multi-Band SWIR–MWIR InAsSb/InAsPSb MQW Heterostructures on InP Enabled by Strain Engineering

Dongwan Kim¹, Thuy Thi Nguyen¹, Minkyong Kim², Jungwon Yoon², Thu Trang Thi Bui^{1,3}, Dayoung Kim^{1,3}, Changsug Lee², Byong Sun Chun^{1,3}, and Sang Jun Lee^{1,2,3}, ¹Korea Research Institute of Standards and Science, Korea, ²IRSpectra co., LTD., Korea, ³Korea Research Institute of Standards and Science, Korea

[TuB3–4]

15:00–15:15

Investigating Surface Treatments on GaN p–i–n Avalanche Photodiodes with Shallow Beveled Edge Termination

Alexandra Dolgashev¹, Davide Balzerani¹, A. Nepomuk Otte¹, Theeradetch Detchprohm¹, Dhrubab Biswas², Subhra Chowdhury², and Russell D. Dupuis¹, ¹Georgia Institute of Technology, USA, ²Magnolia Optical Technologies, USA

[TuB3-5]

15:15–15:30

Efficiency Optimization of 222 nm AlGaIn-Based Far-UVC LEDs

Kexin Ren, Zhiyuan Liu, Haicheng Cao, Tingang Liu, Zixian Jiang, and Xiaohang Li, King Abdullah University of Science and Technology, Saudi Arabia

[TuB3-6]

15:30–15:45

Fast MOVPE Growth of AlGaAs/GaAs Dual-Junction Solar Cells

D. Lackner¹, C. Klein¹, M. Klitzke¹, J. Schön^{1,2}, J. Ohlmann¹, and F. Dimroth¹, ¹Fraunhofer Institute for Solar Energy Systems ISE, Germany, ²University of Freiburg, Germany

[TuB3-7]

15:45–16:00

Composition Pulling Effect of Indium and Origin of High-Energy Peak in InGaIn-Based Red Micro-LEDs

Chunyu Liu¹, Panpan Li^{1,2}, Hira Usman³, Anders Gustafsson³, Yang Su¹, Zihan Xia¹, Weifang Lu^{1,2}, Xu Yang^{1,2}, JinChai Li^{1,2}, Hongjian Li^{1,2}, Kai Huang^{1,2}, Zhaoxia Bi², Lars Samuelson³, and Rong Zhang^{1,2}, ¹Xiamen University, China, ²Future Display Institute of Xiamen, China, ³Southern University of Science and Technology, China