

[ThA1] UV Photonics and Photonic Devices I

Date / Time May 26 (Thu.), 2022 / 09:00–10:40

Place Convention Hall A

Session Chair Yong-Hoon Cho (KAIST, Korea)

[ThA1-1] Invited Talk

Online 09:00–09:30

High-Efficiency AlGaIn Homojunction Tunnel-Junction Deep-UV LEDs

Kengo Nagata^{1,2}, Taichi Matsubara¹, Satoshi Anada³, Yoshiki Saito², Maki Kushimoto¹, Yoshio Honda¹, Tetsuya Takeuchi⁴, Kazuo Yamamoto³, Tsukasa Hirayama^{1,3}, Hiroshi Amano¹

¹Nagoya University, Japan, ²Toyoda Gosei Co., Ltd., Japan, ³Japan Fine Ceramics Center, Japan,

⁴Meijo University, Japan

[ThA1-2] Invited Talk

Online 09:30–10:00

High Internal Quantum Efficiency of AlGaIn UV-C MQWs on Face-to-Face Annealed Sputter-Deposited AlN Templates

Hideaki Murotani¹, Yoichi Yamada²

¹Tokuyama College, Japan, ²Yamaguchi University, Japan

[ThA1-3] Oral

Online 10:00–10:20

Single Photon Emission and Carrier Dynamics in GaN/AlN Quantum Dots

J. Stachurski, G. Callsen, S. Tamariz, R. Butté, N. Grandjean

Swiss Federal Institute of Technology Lausanne, Switzerland

[ThA1-4] Oral

Offline 10:20–10:40

Improvement of Single-Photon Purity and Linewidth of Near-Ultraviolet InGaIn Quantum Emitters Using Quasi-Resonant Excitation

Seongmoon Jun¹, Minho Choi¹, Martina Morassi², Maria Tchernycheva², Noëlle Gogneau², Yong-Hoon Cho¹

¹Korea Advanced Institute of Science and Technology, Korea, ²Paris-Sud University, France