

Session Title:	[Mo3D] Advances in Light Sources 2
Session Date:	August 5 (Mon.), 2024
Session Time:	15:15-16:45
Session Room:	Room D (113)
Session Chair(s)	Prof. Il-Sug Chung (UNIST, Korea)

[Mo3D-1] [Invited] 15:15-15:45

Titanium:Sapphire-on-insulator for On-chip Solid-state Laser Technology

K. Van Gasse, J. Yang, D. M. Lukin, M. A. Guidry, G. H. Ahn, A. D. White, and J. Vučković (Stanford Univ., USA)

[Mo3D-2] 15:45-16:00

High-quality $\text{In}_{0.1}\text{Ga}_{0.9}\text{As}$ -AlAs Distributed Bragg Reflector Monolithically Grown on Si for Surface-emitting Lasers

Tsimafei Laryn, Rafael Jumar Ch, Yeonhwa Kim, Won Jun Choi, and Daehwan Jung (KIST, Korea)

[Mo3D-3] 16:00-16:15

Enhancing Thermal Sensing with Cascaded Quantum-Well Heterojunction Bipolar Light-Emitting Transistors in Darlington Transistor Configuration

Mukul Kumar, Kuang-Yu Hsueh, Yun-Jie Huang, Guan-Jen Lai, and Chao-Hsin Wu (Nat'l Taiwan Univ., Taiwan)

[Mo3D-4] 16:15-16:30

Elliptical-Apertured 850-nm VCSEL Enabling Reduced RMS Linewidth and Enhanced Output Power

Ting-Yu Wu, Jun-Zhang Chen, Yun-Cheng Yang, and Chao-Hsin Wu (Nat'l Taiwan Univ., Korea)

[Mo3D-5] 16:30-16:45

High-Performance 940 nm Ge-based VCSEL with an Over 16.8 GHz Modulation Bandwidth at 85°C

Chih-Chuan Chiu, Yun-Cheng Yang (Nat'l Taiwan Univ., Taiwan), Zeyu Wan (The Univ. of British Columbia, Canada), I-Chi Liu, Wei-Hsin Chen (Nat'l Taiwan Univ., Taipei), Guangrui(Maggie) Xia (The Univ. of British Columbia, Canada), and Chao-Hsin Wu (Nat'l Taiwan Univ., Taiwan)