

Oral Presentation

[FMC4/LCT4]Micro LED Display

Special Topics of Interest on Micro/Mini LEDs

Chair: K Kälantär (Global Optical Solutions)

Co-Chair: Seiji Shibahara (Sony Home Entertainment &Sound Products Inc.)

Thu. Nov 28, 2019 9:00 AM - 10:20 AM Mid-sized Hall A (1F)

9:40 AM - 10:00 AM

[FMC4/LCT4-3(Invited)]Monolithic Integration of GaN-micro-LED and Si-MOSFET for Bio-application

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Keywords:MicroLED, Optogenetics, GaN, wafer bonding

A micro light-emitting diodes (LED) has been attention as an optical stimulation tool for optogenetics. In this study, a needle-type microLED probe was fabricated for neuroscience. In addition, the monolithic integration of microLED and Si-MOSFET using wafer bonding technique was challenged toward the realization of multifunctional devices.