

Oral Presentation

[PH1]Phosphors and Devices

Chair: Rong-Jun Xie (Xiamen University)

Co-Chair: Koutoku Ohmi (Tottori University)

Fri. Nov 29, 2019 10:40 AM - 11:55 AM Room 204 (2F)

11:00 AM - 11:20 AM

[PH1-2]Monolithic Full-color LED Micro-display Using Dual Wavelength LED Epilayers

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Keywords:LED, Micro-display, Full color, Quantum dot

A passive-matrix InGaN LED full-color micro-display with 40 x 40 pixels (120 x 40 RGB subpixels) and subpixel pitch of 40 μ m x 120 μ m was demonstrated. Full-color emission was realized by applying patterned red quantum dot color conversion layer onto a monolithic blue/green dual wavelength LED array.