

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)

10:00 AM - 10:20 AM

[FMC4/LCT4-4]An Active Matrix Mini-LEDs Backlight based on a-Si

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Keywords:Mini-LEDs, A-Si TFT, Backlight

In this work, we fabricate an active matrix mini-LEDs backlight based on a-Si. The driving mechanism with 2T1C and process flow are discussed in detail. IR-drop is analyzed and improved. The gray scale is controlled by PWM method with the number of 64 (6 bit), and the maximum brightness is up to 20,000nits.