

Oral Presentation

[OLED3]OLED Display

Chair: Taishi Tsuji (NIPPON STEEL Chemical &Material)

Co-Chair: Masaya Adachi (Japan Display Inc)

Wed. Nov 27, 2019 5:00 PM - 6:25 PM Room 204 (2F)

5:55 PM - 6:10 PM

[OLED3-5L]Spectral Narrowing and Efficiency Enhancing in Deep-Red Organic Light Emitting Diode

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Keywords:Organic Light Emitting Diode, Deep Red, Fluorescence, TADF, Top-Emission

We developed both thermally activated delayed fluorescence materials with high performances and spectral-narrow fluorescent dopants for deep-red organic light-emitting diodes. We achieved the efficiency of 46 cd/A at 10 mA/cm² and the LT95 of around 90 hours at 50 mA/cm² in the top emission device at CIE_x = 0.679.