

Oral Presentation

## [OLED1]OLED Devices

Chair: Takahisa Shimizu (NHK)

Co-Chair: Ken-ichi Nakayama (Osaka University)

Wed. Nov 27, 2019 1:40 PM - 3:00 PM Room 204 (2F)

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2:20 PM - 2:40 PM

### [OLED1-3]Enhanced Color Purity of Alternating Current-Driven Micro-Cavity Organic Light Emitting Diode

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Keywords:Micro-cavity effect, Polyfluorene, Color purity, Solution process, Purcell effect

We introduced the micro-cavity effect on Alternating Current-Driven Polymer Light Emitting Diodes and investigated the color purity enhancement effect depending on the organic layer thickness condition. We have analyzed the electric field inside the device by the finite-difference time-domain method and fabricated the designed optimal devices.