Precise Control of Organic LED Emission Through Optically-Resonant Microcavity Confinement

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OLED Devices Waveguides and the Fabry-Pérot Etalon Microcavity-confined OLEDs

Experimental Methods

Results

Single Cavity Devices Multi-cavity Devices

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OLED Devices

Waveguides

The Fabry-Pérot Etalon

Microcavity-confined OLEDs

OLED Devices

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Single Cavity Devices
Multi-cavity Devices

OLED Materials

Device Fabrication

Angle-Resolved Electroluminscence Spectroscopy (ARES)

OLED Devices
Waveguides and the Fabry-Pé

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Single Cavity Devices

Peak Emission Wavelength

Band Narrowing

Effect of Bottom Electrode Material

Multi-cavity Devices

Behavior at Large Angles

Number of Resonant Modes

Bandwidth of Resonant Modes

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References

Aknowledgements

Questions?