

Poster Presentation

## [OLEDp2]OLED/QDT poster

Special Topics of Interest on Quantum Dot Technologies

Thu. Nov 28, 2019 10:40 AM - 1:10 PM Main Hall (1F)

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10:40 AM - 1:10 PM

## [OLEDp2-2]The Effect of Particle Size on the Optical and Electrical Characteristics of Quantum Dot Light-Emitting Diode using Zinc Oxide Nanoparticles

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Keywords:Quantum Dot Light-Emitting Diode, Zinc Oxide Nanoparticles, Particle Size

The electrical and optical characteristics of QLEDs with 3 and 8 nm ZnO nanoparticles (NPs) were investigated. The QLED with 8 nm ZnO NPs exhibited maximum luminance of 64,360 cd/m<sup>2</sup> and 4.5 times higher current efficiency compared to the 3 nm ZnO device.