

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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[OLEDp2-4]High Efficiency Green Quantum Dot Light-Emitting Diodes with Surface-treated Indium Phosphide

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Keywords:Indium phosphide quantum dots, surface treatment, green quantum dot light emitting diodes

The multi-shelled green InP QDs were synthesized by using the phosphorus source of (DMA)₃P and the narrow FWHM of 46nm was obtained. The PLQY of 64% was achieved after the surface treatment and the maximum quantum efficiency of 2.68% and the current efficiency of 7.7cd/A were achieved for quantum dot light emitting diodes.