
Poster Presentation

[OLEDp1]OLED poster

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

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[OLEDp1-5]Wide-bandgap bipolar material with high thermal stability

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Keywords:Organic Light Emitting Diode, Bipolar Host, Phosphorescent

A new organic compound was synthesized with bipolar carrier mobility, high singlet/triplet energies, and high thermal stability (193 °C) with suitable molecular design. As the host of blue phosphorescent OLED, it shows maximum current efficiency, power efficiency, and external quantum efficiency of 58.7 cd/A, 59.3 lm/W, and 28.6%, respectively.