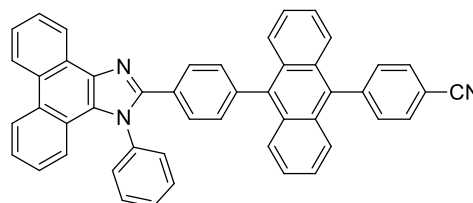


Efficient Nondoped Blue Fluorescent Organic Light- Emitting Diodes (OLEDs) with a High External Quantum Efficiency of 9.4% @ 1000 cd m⁻² Based on Phenanthroimidazole–Anthracene Derivative

Product Specifications

LT-N4205	PIAnCN
Grade	Sublimed, >99%
Formula	C ₄₈ H ₂₉ N ₃
PL	464 nm (film)
HOMO/LUMO	-5.55/-2.78 eV
M.W.	647.76 g/mole



*Reference: *Adv. Funct. Mater.* 2018, 28(11), 1705813

Features

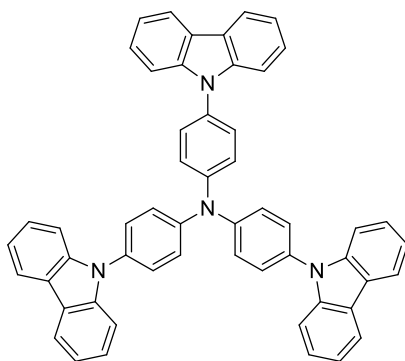
●In this paper, The doped device shows a maximum EQE of 6.77% and deep blue electroluminescence with CIE coordinates of (0.15, 0.07), the nondoped OLEDs exhibit a maximum EQE of 9.44% which is acquired at high luminescence of 1000 cd m⁻², Even when the luminescence increases to 10000 cd m⁻², the EQE is still as high as 8.09%.

Device Application

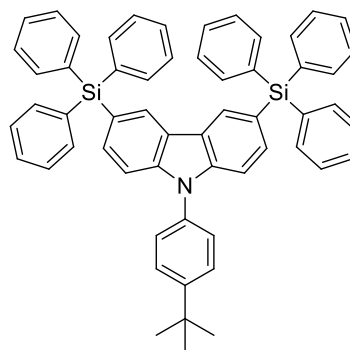
Device: ITO / HATCN / TAPC / TCTA / PIAnCN / TPBi / LiF / Al

Device: ITO / HATCN / TAPC / TCTA / 15 wt% PIAnCN : CzSi / TPBi / LiF / Al

Related products from Lumtec:



LT-E207 TCTA



LT-N484 CzSi

