

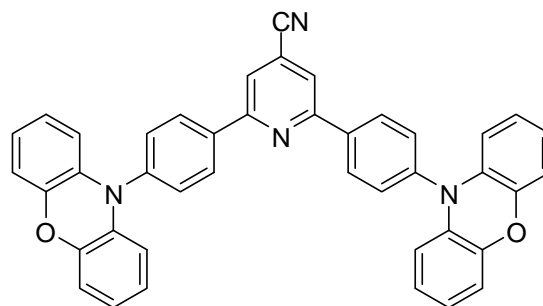


High Power Efficiency Blue-to-Green Organic Light-Emitting Diodes Using Isonicotinonitrile-Based Fluorescent Emitters

Product Specifications

LT-N563 26PXZINN

Name.	2,6-bis(4-(10 <i>H</i> -phenoxazin-10-yl)phenyl)isonicotinonitrile
CAS No.	2093368-84-2
Grade	Sublimed, >99 % (HPLC)
Formula	C ₄₂ H ₂₆ N ₄ O ₂
Molecular Weight	618.68 g/mole
Absorption	405 nm (in Toluene)
Emission	551 nm (in Toluene)
HOMO/LUMO	-5.03 eV/ -2.29 eV
ΔE _{ST}	0.06 eV



* Reference: *Chem. Asian J.* **2017**, *12*, 648-654

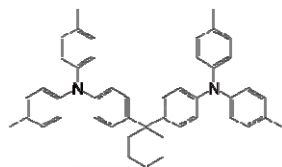
Features

- The green emitter 26PXZINN exhibited a low turn-on voltage of 2.2V, a high η_{ext} of 22% and a high η_{p} of 99 lm/W with CIE chromaticity coordinates of (0.37, 0.58). These performances are among the best for TADF OLEDs to date.
- Its showed reasonably high η_{PLS} of 71-79% and ΔE_{ST} values of 0.06-0.28 eV in the host films and afforded high power efficiency OLEDs.

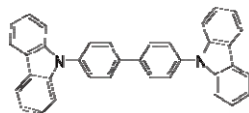
Device Application

The Green OLEDs Device:

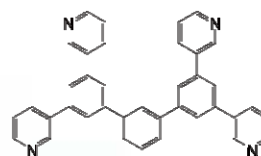
ITO/ triphenylamine-containing polymer: PPBI (20 nm)/ TAPC (20 nm)/ 10 wt% 26PXZINN-doped CBP (20 nm)/ B3PyPB (50 nm)/ LiF (0.5 nm)/ Al (100 nm).



LT-N137 TAPC
LiF = LT-E001



LT-E409 CBP
Al = LT-E005



LT-N865 BmPyPhB
(B3PyPB)

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.