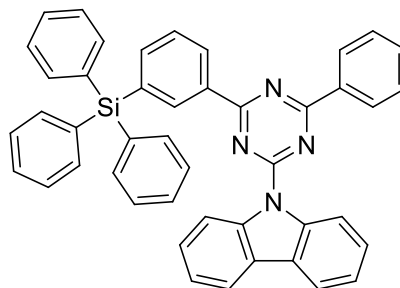


# A bipolar host based high triplet energy electroplex for an over 10 000 h lifetime in pure blue phosphorescent organic light-emitting diodes

## Product Specifications

LT-N4213	SiCzTrz
Grade	Sublimed, >99%
PL	460 nm (film)
Formula	C <sub>45</sub> H <sub>32</sub> N <sub>4</sub> Si
HOMO/LUMO	-6.06/-2.75 eV
M.W.	656.85 g/mole



\*Reference: Mater. Horiz., 2020, 7, 559-565

## Features

- The pure blue PhOLEDs fabricated using the new materials an electroplex host (**SiCzTrz**) in the emissive Clayer exhibit a EQE, and CIE color coordinates of **27.6%**, and **(0.12, 0.13)**, respectively.
- The pure blue PhOLEDs based on SiCzTrz achieved a **T<sub>50</sub> of 10700 h at 100 cd m<sup>-2</sup>**.

## Device Application

Device: Ag / ITO / BPBPA:HAT-CN / BPBPA / mCBP / mCBP:SiCzTrz(50:50):20%Ir(cb)3 / DBFTrz / ZADN:LiQ / LiQ / Ag:Mg.

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