

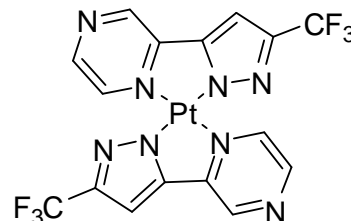


Near-Infrared Organic Light-Emitting Diodes with Very High External Quantum Efficiency and Radiance

Product Specifications

LT-N786 [Pt(fprpz)₂]

Name.	Bis 2-(3-(trifluoromethyl)-1H-pyrazol-5-yl)pyrazine platinum
Grade	Sublimed, >99 % (HPLC)
Formula	C ₁₆ H ₈ F ₆ N ₈ Pt
Molecular Weight	621.36 g/mole
PL	740 nm (film)
HOMO/LUMO	-6.01 eV/-3.85 eV



* Reference: NATURE PHOTONICS/VOL 11/JANUARY 2017/

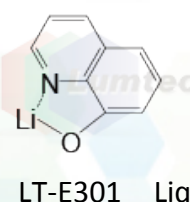
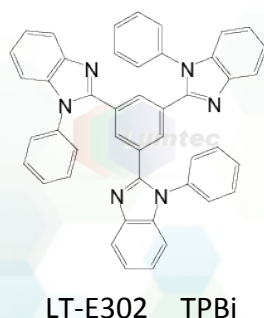
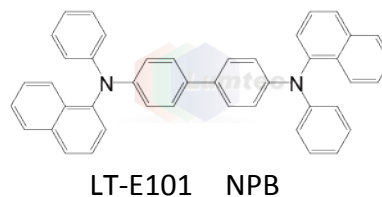
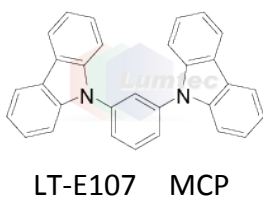
Features

- A new Pt(II) complex with a peak emission at 740 nm, an EQE of 24 ± 1% and maximum radiance of (3.6 ± 0.2) × 10⁵ mW sr⁻¹ m⁻² using complex [Pt(fprpz)₂]. The light out-coupling hemisphere structure further increased the EQE up to 55 ± 3%. Both parameters are the highest reported values among NIR OLEDs.

Device Application

The Best Device:

ITO (100 nm)/ HAT-CN (10 nm)/ NPB (50 nm)/ MCP (15 nm)/ Pt(fprpz)₂ (20 nm)/ TPBi (60 nm)/ Liq (2 nm)/ Al (100 nm).



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