



## 2015 New Product Summary

### OLED

LT-N4086	CBBPE	A diphenyl ether bridged, high triplet energy host material for blue phosphorescent organic light-emitting diodes
LT-N4088	BCzSCN	Bipolar host materials for high efficiency phosphorescent organic light emitting diodes: tuning the HOMO/LUMO levels without reducing the triplet energy in a linear system
LT-N4098	DCzDCN	A Universal Host Material for High External Quantum Efficiency Close to 25% and Long Lifetime in Green Fluorescent and Phosphorescent OLEDs
LT-N4099		Phenylcarbazole-dipyridyl triazole hybrid as bipolar host material for phosphorescent OLEDs
LT-N4101	POBPmDPA	Using an organic molecule with low triplet energy as a host in a highly efficient blue electrophosphorescent device
LT-N4102	BCzTPA	Extremely Low Operating Voltage Green Phosphorescent Organic Light-Emitting Devices
LT-S9156	TPDI	High hole mobility hole transport material for organic light-emitting devices
LT-N889	Tm3PyP26PyB	Pyridine-Containing Electron-Transport Materials for Highly Efficient Blue Phosphorescent OLEDs with Ultralow Operating Voltage and Reduced Efficiency Roll-Off
LT-N890	B3PYPPM	Hybrid Heterocycle-Containing Electron-Transport Materials Synthesized by Regioselective Suzuki Cross-Coupling Reactions for Highly Efficient Phosphorescent OLEDs with Unprecedented Low Operating Voltage
LT-N891	B4PYPPyPM	
LT-N689	DCzTrz	Stable Blue TADF emitters for high efficiency and long lifetime
LT-N690	DDCzTrz	
LT-N177	PFN-OX	Highly Efficient Inverted Polymer Solar Cells Based on a Crosslinkable Water-/Alcohol-Soluble Conjugated Polymer Interlayer
LT-N679	Ir(tfpd)2pic	Highly efficient blue and white phosphorescent OLEDs based on an iridium Complex
LT-N4090	CMP	Solution-processible small-molecular host materials for high-performance phosphorescent organic light-emitting diodes
LT-N4104	pCzB-2CN	Systematic Control of Photophysical Properties of Host Materials For Quantum Efficiency above 25% in Green Thermally Activated Delayed Fluorescent Devices
LT-N4105	mCzB-2CN	Systematic Control of Photophysical Properties of Host Materials For Quantum Efficiency above 25% in Green Thermally Activated Delayed Fluorescent Devices
LT-N766	Ir(2-BtcPh) <sub>2</sub> (pic)	Phosphorescent organic light-emitting diodes fabricated using iridium complexes with carbazole-based benzothiazole ligands
LT-N778	ED	New Area of Research in OLEDs-Aggregation-Induced Emission (AIE)
LT-N779	QM-5	
LT-N753	Ir(MDQ) <sub>2</sub> (acac)	The red dopant material Ir(MDQ) <sub>2</sub> (acac) was used in several high performance luminescence devices
LT-N4107		A new tricarbazole phosphine oxide bipolar host for efficient Blue PhOLED
LT-N4116		Highly efficient orange and deep-red organic light emitting diodes with long operational lifetimes using carbazole-quinoline based bipolar host material

### OPV

LT-S9122	DTDCPB	Vacuum-Deposited Small-Molecule Organic Solar Cells with High Power Conversion Efficiencies by Judicious Molecular Design and Device Optimization
LT-S9166	WS-2	
LT-S9167	WS-5	Indoline Dyes for High Efficient Dye-Sensitized Solar-Cell (DSSC)
LT-S9168	IQ-4	
LT-S9161		Modification for Highly Efficient Organic-Inorganic Perovskite Solar Cells

### OTFT

LT-S9077	BOBTP	High-Mobility Pyrene-Based Semiconductor for Organic Thin-Film Transistors
----------	-------	--

### Perovskite

LT-S9145	p,m-Spiro-MeOTAD	o-Methoxy Substituents in Spiro-OMeTAD for Efficient Inorganic Organic Hybrid Perovskite Solar Cells
LT-S9146	p,o-Spiro-MeOTAD	