

Materials List for:

# Enhanced Electron Injection and Exciton Confinement for Pure Blue Quantum-Dot Light-Emitting Diodes by Introducing Partially Oxidized Aluminum Cathode

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## Materials

Name	Company	Catalog Number	Comments
Indium Tin Oxide (ITO)-coated glass substrate	CSG Holding Co., Ltd.		Resistivity≈10 Ω/sq
Zinc powder	Sigma-Aldrich	96454	Molecular Weight 65.38
Isopropyl alcohol	Beijing Chemical Reagent	67-63-0	Analytically pure
Toluene	Innochem	I01367	Analytically pure
Acetone	Innochem	I01366	Analytically pure
Hydrochloric acid	acros	124210025	1 N standard solution
O-dichlorobenzene	acros	396961000	98+%, Extra Dry
Poly(3,4-ethylenedioxythiophene) doped polystyrene sulfonate (PEDOT:PSS)	H. C.Stark	Clevious P VP Al 4083	
Poly(N,N'-bis(4-butylphenyl)-N,N'-bis(phenyl)-benzidine) (Poly-TPD)	Luminescence Technology	LT-N149	
Aluminum tris(8-Hydroxyquinolate) (Alq <sub>3</sub> )	Luminescence Technology	LT-E401	
UV-O cleaner	Jelight Company	92618	
Filter	Jinteng	JTSF0303/0304	Polyether sulfone (0.45 μm)
Ultrasonic cleaner	HECHUANG ULTRASONIC	KH-500DE	
Digital multimeter	UNI-T	UT39A	
Spin coater	IMECAS	KW-4A	
Digital hotplate	Stuart	SD160	