

Materials List for:

Synthesis and Characterization of High c-axis ZnO Thin Film by Plasma Enhanced Chemical Vapor Deposition System and its UV Photodetector Application

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Materials

Name	Company	Catalog Number	Comments
RF power supply	ADVANCED ENERGY	RFX-600	
Butterfly valve	MKS	253B-1-40-1	
Mass flow controller	PROTEC INSTRUMENTS	PC-540	
Pressure controller	MKS	600 series	
Heater	UPGRADE INSTRUMENT CO.	UI-TC 3001	
Sputter gun	AJA INTERNATIONAL	A320-HA	
DEZn 1.5M	ACROS ORGANIC USA, New Jersey		also called Diethylzinc (C ₂ H ₅) ₂ Zn
Spin coater	SWIENCO	PW - 490	
I-V measurement	Keithley	Model: 2400	
Photoconductive measurement	Home-built		
UV light source	Panasonic	ANUJ 6160	
Mask aligner	Karl Suss	MJB4	
Photoresist	Shibley a Rohm & Haas company	S1813	
Developer	Shibley a Rohm & Haas company	MF319	
Silicon wafer	E-Light Technology Inc	12/0801	
Glass substrate	CORNING	1737	P-type / Boron