

Materials List for:

# Digital Printing of Titanium Dioxide for Dye Sensitized Solar Cells

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## Materials

Name	Company	Catalog Number	Comments
Titanium dioxide	Sigma Aldrich	718467	
Deionized water			Supplied from a filter in the laboratory
Hydrochloric acid, 2 M (2 N)	Fisher Scientific	J/4250/17	
Dimethylformamide (DMF)	Fisher Scientific	D/3840/08	
Ethanol	VWR Chemicals	20721.33	
Dispersing additive	Air Products		
Defoaming agent	Air Products		
Ethylene glycol	Fluka	107-21-1	
Polyvinylidene fluoride (PVDF) syringe filter	VWR International		
Cleaning detergent	Fisher Scientific	10335650	
Fluorine doped tin oxide (FTO) glass, 8 Ω/sq	Pilkington		
Ruthenizer dye	Solaronix	21613	
Pre-cut 60 μm thick thermoplastic sealing film	Solaronix	74301	
50 mM Iodide/tri-iodide electrolyte in acetonitrile	Solaronix	31111	
Platinum coated FTO glass	Solaronix	74201	
Vac'n'Fill Syringe	Solaronix	65209	
Polyimide tape (6.35 mm)	Onecall Farnell	1676087	