

Materials List for:

# Soft Lithographic Functionalization and Patterning Oxide-free Silicon and Germanium

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URL: <https://www.jove.com/video/3478>

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## Materials

Name	Company	Catalog Number	Comments
XPS spectrometer	Kratos Analytical		
Atomic force microscope	Veeco Instruments, Inc.		
SEM-FEG microscope	FEI		
Fluorescent microscope	Carl Zeiss, Inc.		
Heatblock	VWR international		
Vacuum pump	BOC Edwards		
Water purification system	EMD Millipore		
TESP silicon probes	Veeco Instruments, Inc.		
Silicon			
Pressure Vials	Chemglass		
Vacuum manifold	Chemglass		
UV Lamp	UVP Inc.		
Stamp Material	See references 20 and 18		
PTFE syringe filters	VWR international		
Nano Strip	Cyantek Corporation		
HCl	Sigma-Aldrich		
Ethanol	Sigma-Aldrich		
Acetone	Sigma-Aldrich		
HF	Sigma-Aldrich		
Chlorobenzene	Sigma-Aldrich		
PCl <sub>5</sub>	Sigma-Aldrich		
Propenyl Magnesium Chloride	Sigma-Aldrich		
Octyl Magnesium Chloride	Sigma-Aldrich		
Carbon TetraChloride	Sigma-Aldrich		
Boc protected ethylenediamine	Sigma-Aldrich		
TFA	Sigma-Aldrich		
Sodium 2-mercapt-thanesulfonate	Sigma-Aldrich		
4N HCl solution in dioxane	Sigma-Aldrich		
Lysine-N,N-diacetic acid	Sigma-Aldrich		
Et <sub>3</sub> N	Sigma-Aldrich		
DMF	Sigma-Aldrich		

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NiSO <sub>4</sub>	Sigma-Aldrich		
NaP	Sigma-Aldrich		
NaCl	Sigma-Aldrich		
imidazole	Sigma-Aldrich		
PBS	Sigma-Aldrich		