

Materials List for:

Nanomoulding of Functional Materials, a Versatile Complementary Pattern Replication Method to Nanoimprinting

Corsin Battaglia^{1,2}, Karin Söderström¹, Jordi Escarré¹, Franz-Josef Haug¹, Matthieu Despeisse¹, Christophe Ballif¹

¹Institute of Microengineering (IMT), Photovoltaics and Thin Film Electronics Laboratory, Ecole Polytechnique Fédérale de Lausanne (EPFL)

²Department of Electrical Engineering and Computer Sciences, University of California, Berkeley

Correspondence to: Corsin Battaglia at cbattaglia@lbl.gov

URL: <https://www.jove.com/video/50177>

DOI: [doi:10.3791/50177](https://doi.org/10.3791/50177)

Materials

Name	Company	Catalog Number	Comments
Nanoimprinting resin	Microresist	Ormostamp	
(1H, 1H, 2H, 2H-Perfluorooctyl)-trichlorosilane, anti-adhesion agent	Sigma Aldrich	448931-10G	
Glass slides	Schott	AF32 eco	0.5 mm
Polyethylenephtalate (PEN) sheets	Goodfellow	ES361090	0.125 mm
(C ₂ H ₅) ₂ Zn	Akzo Nobel		
Ag sputter target 4N	Heraeus	81062165	
B ₂ H ₆ , SiH ₄ , H ₂ , B(CH ₃) ₃ , PH ₃ , CH ₄ , CO ₂	Messer		
EQUIPMENT			
Nanoimprinting system	Home-built		
LP-CVD system	Home-built		
PVD system	Leybold	Univex 450 B	
PE-CVD reactor	Indeotec	Octopus I	
SEM	JEOL	JSM-7500 TFE	
AFM	Digital Instruments	Nanoscope 3100	