

Materials List for:

Ohmic Contact Fabrication Using a Focused-ion Beam Technique and Electrical Characterization for Layer Semiconductor Nanostructures

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URL: <https://www.jove.com/video/53200>

DOI: [doi:10.3791/53200](https://doi.org/10.3791/53200)

Materials

Name	Company	Catalog Number	Comments
HRTEM&SEAD	FEI (http://www.fei.com/products/tem/tecnaig2/?ind=MS)	Tecnai™ G2 F-20	
SEM&EDS	HITACHI (http://www.hitachi-hitec.com/global/em/sem/sem_index.html)	S-3000H	
FIB	FEI (http://www.fei.com/products/dualbeam/versa-3d/)	Quanta 3D FEG	
AFM	BRUKER (http://www.bruker.com/products/surface-analysis/atomic-force-microscopy/dimension-icon/overview.html)	Dimension Icon	
XRD	Bruker (https://www.bruker.com/products/x-ray-diffraction-and-elemental-analysis/x-ray-diffraction/d2-phaser/learn-more.html)	D2 PHASER X-ray Diffractometer	
Raman	Renishaw (http://www.renishaw.com/en/renishaw-enhancing-efficiency-in-manufacturing-and-healthcare--1030)	inVia Raman microscope system	
Keithley-4200	keithley (http://www.keithley.com.tw/products/dcac/currentvoltage/4200scs)	4200scs	
ultralow current leakage cryogenic probe station	Lakeshore Cryotronics (http://www.lakeshore.com/)	TTP4	
copper foil tape	3M (http://solutions.3m.com/wps/portal/3M/en_US/Electronics_NA/Electronics/Products/Product_Catalog/~3M-Copper-Foil-Shielding-Tape-1182?N=4294300025+5153906&&Nr=AND%28hrcy_id%3A8CQ27CX0WMgs_F2LMWMM6M6_N2RL3FHWVK_GPD0K8BC31gv%29&rt=d)	1182	
Ag paste	Well-Being (http://www.gredmann.com/about.htm)	MS-5000	
Cu wire	Guv Team (http://www.guvteam.com)	ICUD0D01N	
dicing tape	Nexteck (http://www.nexteck-corp.com/tw/product-tape.html)	contact vender	
mica	Centenary Electronic (http://100y.diytrade.com/sdp/307600/4/pl-1175840/0.html)	T0-200	

enamel wire	Light-Tech Electronics (http://www.ltc.com.tw/product_info.php/products_id/57631)	S.W.G #38	
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