

Materials List for:

Scanning-probe Single-electron Capacitance Spectroscopy

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Materials

Name	Company	Catalog Number	Comments
Equipment			
Besocke-design STM	Custom		References 14 and 15
Control electronics for STM	RHK Technology	SPM 1000 Revision 7	
Lock-in amplifier	Stanford Research Systems	SR830	
Curve tracer	Tektronix	Type 576	
Oscilloscope	Tektronix	TDS360	
Multimeter	Tektronix	DMM912	
Wire bonder	WEST-BOND	7476D	with K~1200D temperature controller
Soldering iron	MPJA	301-A	
Cryostat	Oxford Instruments	Heliox	
Material			
Pt/Ir wire, 80:20	nanoScience Instruments	201100	
GaAs wafer	axt	S-I	For the mounting chip
99.99% Au wire, 2 mil diameter	SPM		For the mounting chip
99.99% Au wire, 1 mil diameter	K&S		For wire bonding
Indium shot	Alfa Aesar	11026	
Silver epoxy	Epo-Tek	EJ2189-LV	Any low-temperature-compatible conductive epoxy is acceptable
HEMT	Fujitsu	Low Noise HEMT	