

Amherst College Chemistry Department--Major Research Instrumentation

Instrument/Apparatus	Used by Undergraduates		Year Acquired	Manufacturer and Model
	In Chemistry Course Work	In Research		
NMR spectrometer(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2014	Bruker Ascend 400 with autosampler
	<input type="checkbox"/>	<input type="checkbox"/>		
Optical Molecular Spectroscopy	<input type="checkbox"/>	<input type="checkbox"/>		
IR spectrometer(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2009	Bruker Alpha
FTIR spectrometer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2009	Bruker Tensor 37
UV-Vis spectrometer(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2007	Olis/Cary 14
UV-Vis-Near IR spectrophotometer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2011	P-E Lambda 19 upgrade
Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1995	P-E Fluorimeter LS50B
Optical Atomic Spectroscopy	<input type="checkbox"/>	<input type="checkbox"/>		
Atomic absorption/emission	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>		
Other	<input type="checkbox"/>	<input type="checkbox"/>		
Mass Spectrometry	<input type="checkbox"/>	<input type="checkbox"/>		
Mass spectrometer(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2010	Waters LCT classic
	<input type="checkbox"/>	<input type="checkbox"/>		
GC-Mass spectrometer(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2007	Agilent 7890A/5975C
	<input type="checkbox"/>	<input type="checkbox"/>		
Other	<input type="checkbox"/>	<input type="checkbox"/>		
Chromatography and separations	<input type="checkbox"/>	<input type="checkbox"/>		
Gas chromatograph(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2013	Vernier mini GC Plus (4)
	<input type="checkbox"/>	<input type="checkbox"/>		
Liquid chromatograph(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1997	Waters HPLC
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2011	Biorad Duoflow HPLC
Gel electrophoresis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1996	Biorad and various
	<input type="checkbox"/>	<input type="checkbox"/>		
Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2010	Akta FPLC
Electrochemistry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2009	DO/pH ThermoFisher/Orion
Electrochemical Instrumentation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Potentiostat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2013	CHI 660E potentiostat
Other	<input type="checkbox"/>	<input type="checkbox"/>		
Other	<input type="checkbox"/>	<input type="checkbox"/>		
Radiochemistry (including counting equipment and sources)	<input type="checkbox"/>	<input type="checkbox"/>		
Organic solvent purification system	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2013	JC Meyer
Thermal analysis equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2012	Parr Bomb Calorimeter
Thermogravimetric analyzer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2005	Mettler Toledo TGA851
Schlenklines and dry box apparatus	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2000	Homebuilt
Glove box	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2013	M. Braun
Imaging microscopy	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>		
Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2013	
Additional Instruments (over \$10,000 in cost):				
Microwave reactor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2013	Milestone START
Microwave reactor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2016	Biotage Initiator+