



MATERIALS CHARACTERIZATION APPLICATION AREAS

Instrument	MATERIAL TYPES					FOCUS AREA EXAMPLES											
	Polymers	Metals and Metal Oxides	Ceramics	Bio Materials	Nano Materials, Nano Structures	Thin Film	Corrosion Studies	Powders	Paints and Coatings	Semi Conductors, Micro Electronics	Dielectric Materials	Batteries and Energy Storage	Failure Analysis	Friction Reduction Materials	Medical, Biology, Pharmaceutical	Electronics, Optics, Photovoltaics	
X-Ray Photoelectron Spectrometer (XPS)	X	X	X	X		X	X	X	X	X	X	X	X		X		
Scanning Auger Nanoprobe (SAN)		X	X			X	X		X			X	X	X			
Micro Computed Tomography Scanner (Micro CT)	X		X	X								X			X	X	
X-Ray Diffractometer (XRD)	X	X	X	X	X	X	X	X				X				X	
Raman Spectrometer	X				X		X		X	X		X	X		X		
Small Angle X-Ray Scattering (SAXS)	X		X	X	X			X	X							X	
Atomic Force Microscope (AFM)	X		X	X	X	X	X		X	X		X	X	X	X	X	
Nanoindenter / Nanoscratch System	X	X	X	X		X	X		X	X				X	X	X	
Confocal Laser Scanning Microscope	X			X			X		X						X		
Imaging Ellipsometer	X		X		X	X	X		X		X						
Thin Film Deposition System	X	X				X	X		X								