

N o	Instrument	NANOCAT	Internal (UM)	Outsider (Gov)	Industry Price	Remark
1	Ball Mill Grinder	19	19	39	65	
2	BET Mesopore	TBA	139	289	479	Solid/Powder
3	BET Micropore	TBA	239	TBA	TBA	
4	Density Meter	19	29	75	150	Liquid
5	EDX	30	50	70	200	Solid & powder
6	Differential Scanning Calorimetry (DSC)	80	99	200	250	Solid & powder
7	Differential Scanning Calorimetry (In situ-DSC)	69	79	250	300	
8	Elemental Analyzer (CHNOS)	75	89	300	500	Powder, organic
9	Fourier Transform Infra Red (Ex situ-FTIR)	39	49	100	250	Solid
					200	Liquid
10	Fourier Transform Infra Red (In situ-FTIR)	100	139	200	300	
11	Freeze Dryer	5	6	10	10	Pre-freeze samples at 80°C/Powder
12	Gas Chromatography (TCD-FID)	39	49	199	229	Liquid
		109/Hour	129/Hour			
13	Gas Chromatography (GC-MS)	29	39	330	450	Liquid & Gas
		189/Hour	199/Hour			
14	Gel Permeation Chromatography (GPC)	150	199	330	450	Liquid
15	Hall Effect	150	249	299	399	Solid, thin film
16	HPLC	35	39	165	225	Liquid, solid, powder
		139	149			
17	Ion Chromatography (IC)	25	39	45	50	Solid, liquid
18	Karl Fischer Coulometer (KF)	19	19	75	150	Liquid
19	Particle Size Distribution (PSD)	25	49	100	150	Liquid
20	Raman Spectroscopy (RAMAN)	49	129	150	250	Per sample/per raw data, powder & thin film
		109/Hour	189/Hour			
		25	50	75	125	Additional scan/peak for the same sample
21	Rotating Pressure Vessel Oxidation Test (RPVOT)	649	699	1399	1499	Liquid
22	Surface Tension	25	49	110	150	Slurry
23	Scanning Electron Microscopy (FESEM)	100	169	250	400	Solid & powder
		50	84	125	200	Additional charge per cross section & mapping
		120/Hour	189/Hour			
24	TPDRO	149	249	299	349	Powder
25	Thermogravimetry Analysis (TGA)	80	99	200	250	heating range < 600, Solid /powder
		160	200	250	400	heating range > 600
26	Thermogravimetry-Mass Spectroscopy (TG-MS)	109	119	250	300	heating range < 600 Solid/powder
		200	229	300	450	heating range > 600
27	UV Vis Spectroscopy (UV-VIS)	19	19	39	59	Liquid
		49/Hour				
28	Vibration Sample Magnometer (VSM)	99	119	149	199	Solid, liquid & film
29	X-Ray Diffraction (In situ-XRD)	300	399	449	499	Powder
		90	189	239	298	Without gas
		30	30	30	30	Additional per scan charge
		100	100	100	100	Additional MS result
30	X-Ray Diffraction (Ex-situ-XRD)	79	139	289	389	Solid, Powder & thin film
31	Zeta Potential (ZP)	19	30	100	150	Bring own cuvette, Liquid
		109	119	230	250	without own cuvette (price apply for the 1st sample only)

**All prices are subject to change * For result within 3 days consider as urgent and double price will be charge *Testing result depends on number of samples, instrument availability * Highlighted rows are for current functioning instrument.- If you are interested in using our service kindly contact: ts_nanocat@um.edu.my, Tel: 03-7967 6273*