

Periodic Table of the Instruments

The elements in the classic periodic table serve as the foundation of all substance. These instruments and accessories serve as the foundation of the modern chemical enterprise.

V										VIII									
1 H The human instrument											2 Mu Microfluidics								
3 DA Distillation apparatus	VI										10 RS Richard Smalley (nanotechnology)								
4 CPU Laboratory computers											11 MT Mikhail Tawatt (chromatography)								
11 Ei pH electrodes	II										12 GC/MS Gas chromatography/mass spectrometry								
12 In Integrators	Spectroscopy										13 MT Mikhail Tawatt (chromatography)								
19 Ce Centrifuge	20 LIMS Laboratory information management system	21 NIR Near-infrared spectroscopy	22 ICP Inductively coupled plasma spectroscopy	23 NMR Nuclear magnetic resonance spectroscopy	24 XRF X-ray fluorescence	25 MRS Magnetic resonance spectroscopy	26 FIR Far-infrared spectroscopy	27 Po Polarimeter	28 Au Auger spectroscopy	29 La Laser	30 Co Spectronic colorimeter	31 Re Recorder (GC)	32 SFC Supercritical-fluid chromatography	33 RID Refractive-index detector	34 CCC Countercurrent chromatography	35 FC Fraction collector	36 Na Nanotechnology		
37 AB Analytical balance	38 CDS Chromatography data system	39 Ra Raman spectroscopy	40 IR Infrared spectroscopy	41 MRI Magnetic resonance imaging	42 FTIR Fourier transform infrared spectroscopy	43 PET Positron emission tomography	44 XRD X-ray diffractometer	45 Rf Refractometer	46 SAXS Small-angle X-ray scattering	47 Em Electromagnet	48 FIS Fluorescence spectroscopy	49 CGC Capillary GC column	50 MG Marcel Goulay (GC)	51 TLC Thin-layer chromatography	52 LCC Liquid chromatography columns	53 FFF Field flow fractionation chromatography	54 LOC Lab-on-a-chip		
55 Ph pH meters	56 ADR Analog-digital recorder	57 AAS Atomic absorption spectroscopy	58 ICP-AES ICP-atomic emission spectroscopy	59 UV/Vis Ultraviolet-visible spectrophotometry	60 SPR Surface plasmon resonance	61 Mo Mössbauer spectroscopy	62 PS Phosphorescence spectroscopy	63 PMT Photomultiplier tube	64 OES Optical emission spectrometry	65 AF Atomic fluorescence analyzer	66 ChI Chemical imaging instrumentation	67 PC Paper chromatography	68 IEC Ion exchange chromatography	69 CE Capillary electrophoresis	70 AJPM Archer John Porter Martin (LC, GC)	71 IC Ion chromatography	72 MEMS Microelectromechanical systems		
73 Eb Electronic balance	74 Ro Robotics	75 MS Mass spectrometry	76 SIMS Secondary-ion mass spectrometry	77 L-MS Laser-TOF mass spectrometry	78 JT J. J. Thomson (electron and MS)	79 TOF MS Time-of-flight MS	80 ESI MS Electrospray ionization MS	81 MS/MS Tandem MS	82 MALDI Matrix-assisted laser desorption/ionization	83 ICP MS Inductively coupled plasma MS	84 Q-MS Quadrupole MS								
Lab Tech Series (VII)																			
85 Va Valve	86 Pi Pipettor	87 Ca Calorimeter	88 LW Laboratory washer	89 SP Stir plate	90 Ai Autoinjectors	91 Tr Transport and shipping	92 Sy Syringes	93 Ev Evaporators	94 SPE Solid-phase extraction	95 Sh Shakers	96 Mi Microwave oven	97 Pl Laboratory plasticware	98 Ho Hoods						
Biotech Series (IV)																			
99 PCR Polymerase chain reaction instrument	100 Ep Electrophoresis	101 FS Fred Sanger (proteomics)	102 Ma Microarray	103 XRC X-ray crystallography	104 AAA Amino acid analyzer	105 RY Rosalyn Yalow (RIA)	106 NAA Nucleic acid analyzer	107 SGE Starch gel electrophoresis	108 CC Coulter counter	109 ELISA Enzyme-linked immunosorbent assay	110 SC Scintillation counter	111 TEM Transmission electron microscopy	112 SELDI Surface-enhanced laser desorption/ionization						

Key to the Instrument Sections

- I Chromatography
- II Spectroscopy
- III Spectrometry
- IV Biotechnology
- V Ancillaries and Analyzers
- VI Computers and Automation
- VII Laboratory Technology
- VIII Nanotechnology

C&EN MAGAZINE GROUP

CHEMICAL
Engineering News

TODAY'S
Chemist
AT WORK

modern
discovery
mdd

Thermo
ELECTRON CORPORATION

SALUTES A CENTURY OF INNOVATION IN CHEMISTRY

888-THERMO-U
www.thermo.com