

Accelerated Nuclei by Cyclotrons and CSR

Chemical Periodic Table

1 IA IA	2 IIA IIA											13 IIIB IIIA	14 IVB IVA	15 VB VA	16 VIB VIA	17 VIIB VIIA	18 VIII 0	
1.00794 1 氢 H																	4.00260 2 氦 He	
6.941 3 锂 Li	9.012182 4 铍 Be											10.811 5 硼 B	12.011 6 碳 C	14.00674 7 氮 N	15.9994 8 氧 O	18.9984 9 氟 F	20.1797 10 氖 Ne	
0.53 Lithium	1.85 Beryllium											26.9815 13 铝 Al	28.0855 14 硅 Si	30.9738 15 磷 P	32.066 16 硫 S	35.4527 17 氯 Cl	39.948 18 氩 Ar	
22.9898 11 钠 Na	24.3050 12 镁 Mg	3 IIIA IIIB	4 IVA IVB	5 VA VB	6 VIA VIB	7 VIIA VIIB	8	9 VIII VIII	10	11 IB IB	12 IIB IIB	26.9815 13 铝 Al	28.0855 14 硅 Si	30.9738 15 磷 P	32.066 16 硫 S	35.4527 17 氯 Cl	39.948 18 氩 Ar	
39.0983 19 钾 K	40.078 20 钙 Ca	44.9559 21 钪 Sc	47.88 22 钛 Ti	50.9415 23 钒 V	51.9961 24 铬 Cr	54.9381 25 锰 Mn	55.847 26 铁 Fe	58.9332 27 钴 Co	58.93 28 镍 Ni	63.546 29 铜 Cu	65.39 30 锌 Zn	69.723 31 镓 Ga	72.61 32 锗 Ge	74.9216 33 砷 As	78.96 34 硒 Se	79.904 35 溴 Br	83.80 36 氪 Kr	
0.86 Potassium	1.55 Calcium	3.0 Scandium	4.50 Titanium	5.8 Vanadium	7.19 Chromium	7.43 Manganese	7.86 Iron	8.90 Cobalt	8.90 Nickel	8.96 Copper	7.14 Zinc	5.91 Gallium	5.32 Germanium	5.72 Arsenic	4.80 Selenium	3.12 Bromine	3.74 Krypton	
85.4678 37 铷 Rb	87.62 38 锶 Sr	88.9059 39 钇 Y	91.224 40 锆 Zr	92.9064 41 铌 Nb	95.94 42 钼 Mo	97.907 43 锝 Tc	101.07 44 钌 Ru	102.906 45 铑 Rh	106.42 46 钯 Pd	107.868 47 银 Ag	112.411 48 镉 Cd	114.82 49 铟 In	118.71 50 锡 Sn	121.75 51 锑 Sb	127.60 52 碲 Te	126.904 53 碘 I	131.29 54 氙 Xe	
1.53 Rubidium	2.6 Strontium	4.5 Yttrium	6.49 Zirconium	8.55 Niobium	10.2 m Molybdenum	11.5 Technetium	12.2 Ruthenium	12.4 Rhodium	12.0 Palladium	10.5 Silver	8.648 Cadmium	7.31 Indium	7.30 Tin	6.618 Antimony	6.24 Tellurium	4.92 Iodine	3.89 Xenon	
132.905 55 铯 Cs	137.327 56 钡 Ba	138.906 57 镧 La	178.49 72 铪 Hf	180.948 73 钽 Ta	183.85 74 钨 W	186.207 75 铼 Re	190.2 76 锇 Os	192.22 77 铱 Ir	195.08 78 铂 Pt	196.967 79 金 Au	200.59 80 汞 Hg	204.383 81 铊 Tl	207.2 82 铅 Pb	208.980 83 铋 Bi	(208.98) 84 钋 Po	(209.99) 85 砹 At	(222.02) 86 氡 Rn	
1.87 Cesium	3.78 Barium	6.7 Lanthanum	13.1 Hafnium	16.6 Tantalum	19.3 Tungsten	21.0 Rhenium	22.59 Osmium	22.42 Iridium	21.4 Platinum	19.3 Gold	13.546 Mercury	11.85 Thallium	11.34 Lead	9.971 Bismuth	9.4 Polonium	-- Astatine	9.91 Radon	
(223.02) 87 钫 Fr	(226.03) 88 镭 Ra	(227.03) 89 锕 Ac	(261.) 104 Rf	(262.) 105 Db	(263.) 106 Sg	(262.) 107 Bh	(265.) 108 Hs	(266.) 109 Mt	(281.) 110 Ds	(281.) 111 Rg	(285.) 112 Cn	(286.) 113 Uut	(289.) 114 Uuq	(289.) 115 Uup	(293.) 116 Uuh	(294.) 117 Uus	(294.) 118 Uuo	
-- Francium	5.0 Radium	10.07 Actinium	-- m Rutherfordium	-- m Dubnium	-- m Seaborgium	-- m Bohrium	-- m Hassium	-- m Meitnerium	-- m Darmstadtium	-- m Roentgenium	-- m Copernicium	-- m Ununtrium	-- m Ununquadium	-- m Ununpentium	-- m Ununhexium	-- m Ununseptium	-- m Ununoctium	
140.115 58 铈 Ce	140.908 59 镨 Pr	144.24 60 钕 Nd	(144.91) 61 钷 Pm	150.36 62 钐 Sm	151.965 63 铕 Eu	157.25 64 钆 Gd	158.925 65 铽 Tb	162.50 66 镝 Dy	164.930 67 钬 Ho	167.26 68 铒 Er	168.934 69 铥 Tm	173.04 70 镱 Yb	174.967 71 镱 Lu					
6.78 Cerium	4.77 m Praseodymium	7.00 Neodymium	6.475 Promethium	7.54 Samarium	5.26 Europium	7.89 Gadolinium	8.27 Terbium	8.54 Dysprosium	8.80 Holmium	9.05 Erbium	9.33 Thulium	6.98 Ytterbium	9.84 Lutetium					
232.038 90 钍 Th	(231.04) 91 镤 Pa	(238.03) 92 铀 U	(237.05) 93 镎 Np	(244.06) 94 钚 Pu	(243.06) 95 镅 Am	(247.07) 96 镆 Cm	(247.07) 97 锫 Bk	(242.06) 98 锿 Cf	(252.08) 99 镱 Es	(257.) 100 镻 Fm	(258.) 101 钷 Md	(259.) 102 锫 No	(260.) 103 锫 Lr					
11.7 Thorium	15.4 Protactinium	19.07 Uranium	20.4 Neptunium	19.8 Plutonium	13.6 Americium	13.511 Curium	-- Berkelium	-- Californium	-- Einsteinium	-- Fermium	-- m Mendelevium	-- Nobelium	-- Lawrencium					

