

元素周期表

族 周期	I A											IIA																			电子层	0族 电子数						
1	1 H 1.007 94(7) 1s ¹											2 He 4.002 602(2) 1s ²																			K	2						
2	3 Li 6.941(2) 2s ¹	4 Be 9.012 182(3) 2s ²											5 B 10.811(7) 2s ² 2p ¹	6 C 12.010 7(8) 2s ² 2p ²	7 N 14.006 74(7) 2s ² 2p ³	8 O 15.998 4(3) 2s ² 2p ⁴	9 F 18.998 403 2(5) 2s ² 2p ⁵	10 Ne 20.179 7(6) 2s ² 2p ⁶															L K	8 2				
3	11 Na 22.989 770(2) 3s ¹	12 Mg 24.305 0(6) 3s ²											13 Al 26.981 538(2) 3s ² 3p ¹	14 Si 28.085 5(3) 3s ² 3p ²	15 P 30.973 761(2) 3s ² 3p ³	16 S 32.066(6) 3s ² 3p ⁴	17 Cl 35.452 7(9) 3s ² 3p ⁵	18 Ar 39.948(1) 3s ² 3p ⁶													M L K	8 8 2						
4	19 K 39.098 3(1) 4s ¹	20 Ca 40.078(4) 4s ²	21 Sc 44.955 910(8) 3d ¹ 4s ²	22 Ti 47.867(1) 3d ² 4s ²	23 V 50.941 5(1) 3d ³ 4s ²	24 Cr 51.996 1(6) 3d ⁵ 4s ¹	25 Mn 54.938 049(9) 3d ⁵ 4s ²	26 Fe 55.845(2) 3d ⁶ 4s ²	27 Co 58.933 200(9) 3d ⁷ 4s ²	28 Ni 58.693 4(2) 3d ⁸ 4s ²	29 Cu 63.546(3) 3d ¹⁰ 4s ¹	30 Zn 65.38(2) 3d ¹⁰ 4s ²	31 Ga 69.723(1) 4s ² 4p ¹	32 Ge 72.61(2) 4s ² 4p ²	33 As 74.921 60(2) 4s ² 4p ³	34 Se 78.96(3) 4s ² 4p ⁴	35 Br 79.904(1) 4s ² 4p ⁵	36 Kr 83.80(1) 4s ² 4p ⁶													N M L K	8 18 8 2						
5	37 Rb 85.467 8(3) 5s ¹	38 Sr 87.62(1) 5s ²	39 Y 88.905 85(2) 4d ¹ 5s ²	40 Zr 91.224(2) 4d ² 5s ²	41 Nb 92.906 38(2) 4d ⁴ 5s ¹	42 Mo 95.94(1) 4d ⁵ 5s ¹	43 Tc 101.07(2) 4d ⁵ 5s ²	44 Ru 101.07(2) 4d ⁷ 5s ¹	45 Rh 102.905 50(2) 4d ⁸ 5s ¹	46 Pd 106.42(1) 4d ¹⁰	47 Ag 107.868 2(2) 4d ¹⁰ 5s ¹	48 Cd 112.411(8) 4d ¹⁰ 5s ²	49 In 114.818(3) 5s ² 5p ¹	50 Sn 118.710(7) 5s ² 5p ²	51 Sb 121.760(1) 5s ² 5p ³	52 Te 127.60(3) 5s ² 5p ⁴	53 I 126.904 47(3) 5s ² 5p ⁵	54 Xe 131.29(2) 5s ² 5p ⁶													O N M L K	8 18 18 8 2						
6	55 Cs 132.905 45(2) 6s ¹	56 Ba 137.327(7) 6s ²	La-Lu 镧系		57-71 La-Lu 镧系	72 Hf 178.49(2) 5d ² 6s ²	73 Ta 180.947 9(1) 5d ³ 6s ²	74 W 183.84(1) 5d ⁴ 6s ²	75 Re 186.207(1) 5d ⁵ 6s ²	76 Os 190.23(3) 5d ⁶ 6s ²	77 Ir 192.217(3) 5d ⁷ 6s ²	78 Pt 195.078(2) 5d ⁹ 6s ¹	79 Au 196.966 55(2) 5d ¹⁰ 6s ¹	80 Hg 200.59(2) 5d ¹⁰ 6s ²	81 Tl 204.383 3(2) 6s ² 6p ¹	82 Pb 207.2(1) 6s ² 6p ²	83 Bi 208.980 37(3) 6s ² 6p ³	84 Po 6s ² 6p ⁴	85 At 6s ² 6p ⁵	86 Rn 6s ² 6p ⁶											P O N M L K	8 18 32 18 8 2						
7	87 Fr 7s ¹	88 Ra 7s ²	Ac-Lr 锕系		89-103 Ac-Lr 锕系	104 Rf (6d ² 7s ²)	105 Db (6d ³ 7s ²)	106 Sg (6d ⁴ 7s ²)	107 Bh (6d ⁵ 7s ²)	108 Hs (6d ⁶ 7s ²)	109 Mt (6d ⁷ 7s ²)	110 Uun *	111 Uuu *	112 Uub *																								

原子序数←

19 K

→元素符号

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39.098 3(1)

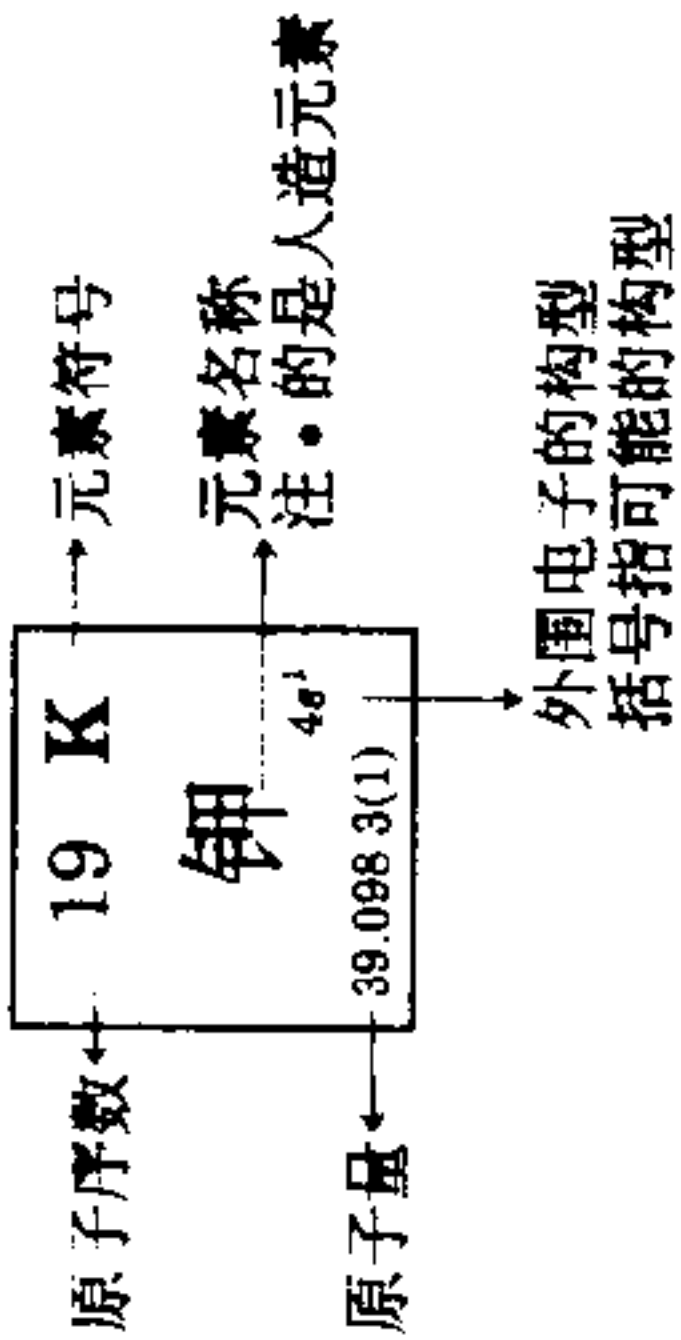
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原子量

元素名称
注•的是人造元素

4s¹

外围电子的构型
括号拍可能的构型



57 La 138.905 5(2) 5d ¹ 6s ²	58 Ce 140.116(1) 4f ¹ 5d ¹ 6s ²	59 Pr 140.907 65(2) 4f ³ 6s ²	60 Nd 144.24(3) 4f ⁴ 6s ²	61 Pm 4f ⁵ 6s ²	62 Sm 150.36(3) 4f ⁶ 6s ²	63 Eu 151.964(1) 4f ⁷ 6s ²	64 Gd 157.25(3) 4f ⁷ 5d ¹ 6s ²	65 Tb 158.925 34(2) 4f ⁹ 6s ²	66 Dy 162.50(3) 4f ¹⁰ 6s ²	67 Ho 164.930 32(2) 4f ¹¹ 6s ²	68 Er 167.26(3) 4f ¹² 6s ²	69 Tm 168.934 21(2) 4f ¹³ 6s ²	70 Yb 173.04(3) 4f ¹⁴ 6s ²	71 Lu 174.967(1) 4f ¹⁴ 5d ¹ 6s ²
89 Ac 227.033 7(1) 6d ¹ 7s ²	90 Th 232.037 7(2) 6d ² 7s ²	91 Pa 231.036 88(2) 5f ² 6d ¹ 7s ²	92 U 238.028 9(1) 5f ³ 6d ¹ 7s ²	93 Np 237.048 1(1) 5f ⁴ 6d ¹ 7s ²	94 Pu 239.052 1(2) 5f ⁶ 7s ²	95 Am 243.061 3(3) 5f ⁷ 7s ²	96 Cm 247.077 1(2) 5f ⁷ 6d ¹ 7s ²	97 Bk 247.077 1(2) 5f ⁹ 7s ²	98 Cf 251.083 3(2) 5f ¹⁰ 7s ²	99 Es 252.083 3(2) 5f ¹¹ 7s ²	100 Fm 257.105 3(2) 5f ¹² 7s ²	101 Md 258.105 3(2) 5f ¹³ 7s ²	102 No 259.105 3(2) 5f ¹⁴ 7s ²	103 Lr 260.105 3(2) 5f ¹⁴ 6d ¹ 7s ²

注：原子量录自1997年国际原子量表，以¹²C = 12为基准。原子量末位数的准确度加注在其后括号内。