

English-Chinese Periodic Table of Elements 英漢元素周期表

1 / Ia																			18 / VIIIA														
1 氫 H 1 hydrogen 1.0079 1s ¹																		2 氦 He helium 4.0026 1s ²															
2 / IIa																		13 / IIIa	14 / IVa	15 / Va	16 / VIA	17 / VIIa											
3 鋰 Li 1 lithium 6.941 [He]2s ¹	4 鈹 Be 2 beryllium 9.0122 [He]2s ²															5 硼 B 3 boron 10.811 [He]2s ² 2p ¹	6 碳 C 4,2 carbon 12.011 [He]2s ² 2p ²	7 氮 N ±3,5,4,2 nitrogen 14.007 [He]2s ² 2p ³	8 氧 O -2 oxygen 15.999 [He]2s ² 2p ⁴	9 氟 F -1 fluorine 18.998 [He]2s ² 2p ⁵	10 氖 Ne neon 20.180 [He]2s ² 2p ⁶												
3 / IIIb		4 / IVb	5 / Vb	6 / VIb	7 / VIIb	8 / VIIIb	9 / VIIIb	10 / VIIIb	11 / Ib	12 / IIB							13 / IIIa	14 / IVa	15 / Va	16 / VIA	17 / VIIa												
11 鈉 Na 1 sodium 22.990 [Ne]3s ¹	12 鎂 Mg 2 magnesium 24.305 [Ne]3s ²																			13 鋁 Al 3 aluminum 26.982 [Ne]3s ² 3p ¹	14 矽 Si 4 silicon 28.086 [Ne]3s ² 3p ²	15 磷 P ±3,5,4 phosphorus 30.974 [Ne]3s ² 3p ³	16 硫 S ±2,4,6 sulfur 32.065 [Ne]3s ² 3p ⁴	17 氯 Cl ±1,3,5,7 chlorine 35.453 [Ne]3s ² 3p ⁵	18 氬 Ar argon 39.948 [Ne]3s ² 3p ⁶								
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19 鉀 K 1 potassium 39.098 [Ar]4s ¹	20 鈣 Ca 2 calcium 40.078 [Ar]4s ²	21 鈾 Sc 3 scandium 44.956 [Ar]4s ³ d ¹	22 鈦 Ti 4 titanium 47.867 [Ar]4s ² d ²	23 鈮 V 5,3 vanadium 50.942 [Ar]4s ³ d ³	24 鉻 Cr 6,3,2 chromium 51.996 [Ar]4s ³ d ⁵	25 錳 Mn 7,6,4,2,3 manganese 54.938 [Ar]4s ³ d ⁵	26 鐵 Fe 2,3 iron 55.845 [Ar]4s ³ d ⁶	27 鈷 Co 2,3 cobalt 58.933 [Ar]4s ³ d ⁷	28 鎳 Ni 2,3 nickel 58.693 [Ar]4s ³ d ⁸	29 銅 Cu 2,1 copper 63.546 [Ar]4s ³ d ¹⁰	30 鋅 Zn 2 zinc 65.409 [Ar]4s ³ d ¹⁰	31 鎵 Ga 3 gallium 69.723 [Ar]4s ³ d ¹⁰ 4p ¹	32 鍺 Ge 4 germanium 72.64 [Ar]4s ³ d ¹⁰ 4p ²	33 砷 As ±3,5 arsenic 74.922 [Ar]4s ³ d ¹⁰ 4p ³	34 硒 Se ±2,4,6 selenium 78.96 [Ar]4s ³ d ¹⁰ 4p ⁴	35 溴 Br ±1,5 bromine 79.904 [Ar]4s ³ d ¹⁰ 4p ⁵	36 氙 Kr krypton 83.798 [Ar]4s ³ d ¹⁰ 4p ⁶																
37 銣 Rb 1 rubidium 85.468 [Kr]5s ¹	38 銣 Sr 2 strontium 87.62 [Kr]5s ²	39 鈷 Y 3 yttrium 88.906 [Kr]5s ⁴ d ¹	40 鋯 Zr 4 zirconium 91.224 [Kr]5s ² d ²	41 鈮 Nb 5,3 niobium 92.906 [Kr]5s ¹ 4d ⁴	42 鈾 Mo 6,5,4,3,2 molybdenum 95.94 [Kr]5s ¹ 4d ⁵	43 錳 Tc 7 technetium 101.07 [Kr]5s ² 4d ⁵	44 鈦 Ru 2,3,4,6,8 ruthenium 101.07 [Kr]5s ¹ 4d ⁷	45 銩 Rh 2,3,4 rhodium 102.91 [Kr]5s ¹ 4d ⁸	46 鈀 Pd 2,4 palladium 106.42 [Kr]4d ¹⁰	47 銀 Ag 1 silver 107.87 [Kr]5s ¹ 4d ¹⁰	48 鎘 Cd 2 cadmium 112.41 [Kr]5s ² 4d ¹⁰	49 銦 In 3 indium 114.82 [Kr]5s ² 4d ¹⁰ 5p ¹	50 錫 Sn 4,2 tin 118.71 [Kr]5s ² 4d ¹⁰ 5p ²	51 銻 Sb ±3,5 antimony 121.76 [Kr]5s ² 4d ¹⁰ 5p ³	52 碲 Te ±2,4,6 tellurium 127.60 [Kr]5s ² 4d ¹⁰ 5p ⁴	53 碘 I ±1,5,7 iodine 126.90 [Kr]5s ² 4d ¹⁰ 5p ⁵	54 氙 Xe xenon 131.29 [Kr]5s ² 4d ¹⁰ 5p ⁶																
55 銫 Cs 1 cesium 132.905 [Xe]6s ¹	56 鋇 Ba 2 barium 137.327 [Xe]6s ²	71 釷 Lu 3 lutetium 174.97 [Xe]6s ² 4f ¹⁴ 5d ¹	72 釷 Hf 4 hafnium 178.49 [Xe]6s ² 4f ¹⁴ 5d ²	73 鈮 Ta 5 tantalum 180.95 [Xe]6s ² 4f ¹⁴ 5d ³	74 鎢 W 6,5,4,3,2 tungsten 183.84 [Xe]6s ² 4f ¹⁴ 5d ⁴	75 錒 Re 7,6,4,2,-1 rhenium 186.21 [Xe]6s ² 4f ¹⁴ 5d ⁵	76 銱 Os 2,3,4,6,8 osmium 190.23 [Xe]6s ² 4f ¹⁴ 5d ⁶	77 銥 Ir 2,3,4,6 iridium 192.22 [Xe]6s ² 4f ¹⁴ 5d ⁷	78 鉑 Pt 2,4 platinum 195.08 [Xe]6s ¹ 4f ¹⁴ 5d ⁹	79 金 Au 3,1 gold 196.97 [Xe]6s ¹ 4f ¹⁴ 5d ¹⁰	80 汞 Hg 2,1 mercury 200.59 [Xe]6s ² 4f ¹⁴ 5d ¹⁰	81 鉍 Tl 3,1 thallium 204.38 [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ¹	82 鉛 Pb 4,2 lead 207.2 [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ²	83 鉍 Bi 3,5 bismuth 208.98 [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ³	84 鉍 Po 4,2 polonium [209] [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁴	85 釷 At ±1,3,5,7 astatine [210] [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁵	86 氡 Rn radon [222] [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁶																
87 釷 Fr 1 francium [223] [Rn]7s ¹	88 釷 Ra 2 radium [226] [Rn]7s ²	103 釷 Lr 3 lawrencium [262] [Rn]7s ² 5f ¹⁴ 6d ¹	104 釷 Rf 4 rutherfordium [261] [Rn]7s ² 5f ¹⁴ 6d ²	105 釷 Pb 5,4 dubnium [268] [Rn]7s ² 5f ¹⁴ 6d ³	106 釷 Sg 6,5,4,3 seaborgium [271] [Rn]7s ² 5f ¹⁴ 6d ⁴	107 釷 Bh 6,5,4,3 bohrium [270] [Rn]7s ² 5f ¹⁴ 6d ⁵	108 釷 Hs 6,5,4,3 hassium [277] [Rn]7s ² 5f ¹⁴ 6d ⁶	109 釷 Mt 6,5,4,3 meitnerium [276] [Rn]7s ² 5f ¹⁴ 6d ⁷	110 釷 Ds 6,5,4,3 darmstadtium [281] [Rn]7s ² 5f ¹⁴ 6d ⁸	111 釷 Rg 6,5,4,3 roentgenium [282] [Rn]7s ² 5f ¹⁴ 6d ⁹	112 釷 Cn 6,5,4,3 copernicium [285] [Rn]7s ² 5f ¹⁴ 6d ¹⁰	113 (釷) Nh 6,5,4,3 nihonium [285] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ¹	114 釷 Fl 6,5,4,3 flerovium [289] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ²	115 (釷) Mc 6,5,4,3 moscovium [289] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ³	116 釷 Lv 6,5,4,3 livermorium [293] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁴	117 (釷) Ts 6,5,4,3 tennessine [294] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁵	118 釷 Og 6,5,4,3 oganeson [294] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁶																

atomic num 元素
symbol oxidation states
element name
atomic weight
electron configuration

57-70 lanthanoids 鐳系元素

57 鐳 La 3 lanthanum 138.91 [Xe]6s ² 5d ¹	58 鐳 Ce 3,4 cerium 140.12 [Xe]6s ² 4f ¹ 5d ¹	59 鐳 Pr 3,4 praseodymium 140.91 [Xe]6s ² 4f ³	60 鐳 Nd 3 neodymium 144.24 [Xe]6s ² 4f ⁴	61 鐳 Pm 3 promethium [145] [Xe]6s ² 4f ⁵	62 鐳 Sm 3,2 samarium 150.36 [Xe]6s ² 4f ⁶	63 鐳 Eu 3,2 europium 151.96 [Xe]6s ² 4f ⁷	64 鐳 Gd 3 gadolinium 157.25 [Xe]6s ² 4f ⁷ 5d ¹	65 鐳 Tb 3,4 terbium 158.93 [Xe]6s ² 4f ⁹	66 鐳 Dy 3 dysprosium 162.50 [Xe]6s ² 4f ¹⁰	67 鐳 Ho 3 holmium 164.93 [Xe]6s ² 4f ¹¹	68 鐳 Er 3 erbium 167.26 [Xe]6s ² 4f ¹²	69 鐳 Tm 3,2 thulium 168.93 [Xe]6s ² 4f ¹³	70 鐳 Yb 3,2 ytterbium 173.04 [Xe]6s ² 4f ¹⁴
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actinoids 鐳系元素

89 鐳 Ac 3 actinium [227] [Rn]7s ² 6d ¹	90 鐳 Th 4 thorium 232.04 [Rn]7s ² 6d ²	91 鐳 Pa 5,4 protactinium 231.04 [Rn]7s ² 5f ² 6d ¹	92 鐳 U 6,5,4,3 uranium 238.03 [Rn]7s ² 5f ³ 6d ¹	93 鐳 Np 6,5,4,3 neptunium [237] [Rn]7s ² 5f ⁴ 6d ¹	94 鐳 Pu 6,5,4,3 plutonium [244] [Rn]7s ² 5f ⁶	95 鐳 Am 6,5,4,3 americium [243] [Rn]7s ² 5f ⁷	96 鐳 Cm 3 curium [247] [Rn]7s ² 5f ⁷ 6d ¹	97 鐳 Bk 4,3 berkelium [247] [Rn]7s ² 5f ⁹	98 鐳 Cf 3 californium [251] [Rn]7s ² 5f ¹⁰	99 鐳 Es 3 einsteinium [252] [Rn]7s ² 5f ¹¹	100 鐳 Fm 3 fermium [257] [Rn]7s ² 5f ¹²	101 鐳 Md 3,2 mendelevium [258] [Rn]7s ² 5f ¹³	102 鐳 No 3,2 nobelium [259] [Rn]7s ² 5f ¹⁴
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23 鈮 V 5,3 vanadium 50.942 [Ar]4s ² 3d ³	24 鉻 Cr 6,3,2 chromium 51.996 [Ar]4s ¹ 3d ⁵																																																																																																																						
25 錳 Mn 7,6,4,2,3 manganese 54.938 [Ar]4s ² 3d ⁵	26 鐵 Fe 2,3 iron 55.845 [Ar]4s ¹ 3d ⁶																																																																																																																						
27 鈷 Co 2,3 cobalt 58.933 [Ar]4s ² 3d ⁷	28 鎳 Ni 2,3 nickel 58.693 [Ar]4s ¹ 3d ⁸																																																																																																																						
29 銅 Cu 2,1 copper 63.546 [Ar]4s ¹ 3d ¹⁰	30 鋅 Zn 2 zinc 65.409 [Ar]4s ² 3d ¹⁰																																																																																																																						
31 鎵 Ga 3 gallium 69.723 [Ar]4s ² 3d ¹⁰ 4p ¹	32 鍺 Ge 4 germanium 72.64 [Ar]4s ² 3d ¹⁰ 4p ²																																																																																																																						
33 砷 As ±3,5 arsenic 74.922 [Ar]4s ² 3d ¹⁰ 4p ³	34 硒 Se ±2,4,6 selenium 78.96 [Ar]4s ² 3d ¹⁰ 4p ⁴																																																																																																																						
35 溴 Br ±1,5 bromine 79.904 [Ar]4s ² 3d ¹⁰ 4p ⁵	36 氙 Kr krypton 83.798 [Ar]4s ² 3d ¹⁰ 4p ⁶																																																																																																																						
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57-70 lanthanoids 鐳系元素

57	鐳	58	鈳	59	鑷	60	鉭	61	鉭	62	鈳	63	銷	64	釷	65	鉭	66	鑷	67	鈳	68	鉭	69	鈳	70	鑷
La 3	Ce 3,4	Pr 3,4	Nd 3	Pm 3	Sm 3,2	Eu 3,2	Gd 3	Tb 3,4	Dy 3	Ho 3	Er 3	Tm 3,2	Yb 3,2														
lanthanum 138.91 [Xe]6s ² 5d ¹	cerium 140.12 [Xe]6s ² 4f ¹ 5d ¹	praseodymium 140.91 [Xe]6s ² 4f ³	neodymium 144.24 [Xe]6s ² 4f ⁴	promethium [145] [Xe]6s ² 4f ⁵	samarium 150.36 [Xe]6s ² 4f ⁶	europium 151.96 [Xe]6s ² 4f ⁷	gadolinium 157.25 [Xe]6s ² 4f ⁷ 5d ¹	terbium 158.93 [Xe]6s ² 4f ⁹	dysprosium 162.50 [Xe]6s ² 4f ¹⁰	holmium 164.93 [Xe]6s ² 4f ¹¹	erbium 167.26 [Xe]6s ² 4f ¹²	thulium 168.9															