

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

1 / Ia																		18 / VIIIA																					
1 氫 H 1 hydrogen 1.0080 1s ¹																		2 氦 He helium 4.0026 1s ²																					
3 鋰 Li 1 lithium 6.94 [He]2s ¹		4 鈹 Be 2 beryllium 9.0122 [He]2s ²		<table border="1"> <tr> <td>alkalai metals</td> <td>alkaline earths</td> <td>lanthanoid</td> <td>actinoid</td> <td>transition metals</td> </tr> <tr> <td>other metals</td> <td>semi-metals</td> <td>non-metals</td> <td>halogens</td> <td>noble gases</td> </tr> </table>														alkalai metals	alkaline earths	lanthanoid	actinoid	transition metals	other metals	semi-metals	non-metals	halogens	noble gases	5 硼 B 3 boron 10.81 [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	
alkalai metals	alkaline earths	lanthanoid	actinoid	transition metals																																			
other metals	semi-metals	non-metals	halogens	noble gases																																			
11 鈉 Na 1 sodium 22.990 [Ne]3s ¹		12 鎂 Mg 2 magnesium 24.305 [Ne]3s ²		<table border="1"> <tr> <td>3 / IIIb</td> <td>4 / IVb</td> <td>5 / Vb</td> <td>6 / VIb</td> <td>7 / VIIb</td> <td>8 / VIIIb</td> <td>9 / VIIIb</td> <td>10 / VIIIb</td> <td>11 / Ib</td> <td>12 / IIb</td> </tr> </table>														3 / IIIb	4 / IVb	5 / Vb	6 / VIb	7 / VIIb	8 / VIIIb	9 / VIIIb	10 / VIIIb	11 / Ib	12 / IIb	13 鋁 Al 3 aluminum 26.982 [Ne]3s ² 3p ¹		14 硅 Si 4 silicon 28.085 [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 32.06 [Ne]3s ² 3p ⁴		17 氯 Cl ±1,3,5,7 chlorine 35.45 [Ne]3s ² 3p ⁵		18 氬 Ar argon 39.95 [Ne]3s ² 3p ⁶	
3 / IIIb	4 / IVb	5 / Vb	6 / VIb	7 / VIIb	8 / VIIIb	9 / VIIIb	10 / VIIIb	11 / Ib	12 / IIb																														
19 鉀 K 1 potassium 39.098 [Ar]4s ¹		20 鈣 Ca 2 calcium 40.078 [Ar]4s ²		21 鈦 Sc 3 scandium 44.956 [Ar]4s ³ 3d ¹		22 鈦 Ti 4 titanium 47.867 [Ar]4s ² 3d ²		23 鈦 V 5,3 vanadium 50.942 [Ar]4s ³ 3d ³		24 鉻 Cr 6,3,2 chromium 51.996 [Ar]4s ³ 3d ⁵		25 錳 Mn 7,6,4,2,3 manganese 54.938 [Ar]4s ³ 3d ⁵		26 鐵 Fe 2,3 iron 55.845 [Ar]4s ³ 3d ⁶		27 鈷 Co 2,3 cobalt 58.933 [Ar]4s ³ 3d ⁷		28 鎳 Ni 2,3 nickel 58.693 [Ar]4s ³ 3d ⁸		29 銅 Cu 2,1 copper 63.546 [Ar]4s ³ 3d ¹⁰		30 鋅 Zn 2 zinc 65.38 [Ar]4s ³ 3d ¹⁰		31 鎵 Ga 3 gallium 69.723 [Ar]4s ³ 3d ¹⁰ 4p ¹		32 鍺 Ge 4 germanium 72.630 [Ar]4s ³ 3d ¹⁰ 4p ²		33 砷 As ±3,5 arsenic 74.922 [Ar]4s ³ 3d ¹⁰ 4p ³		34 硒 Se ±2,4,6 selenium 78.971 [Ar]4s ³ 3d ¹⁰ 4p ⁴		35 溴 Br ±1,5 bromine 79.904 [Ar]4s ³ 3d ¹⁰ 4p ⁵		36 氬 Kr krypton 83.798 [Ar]4s ³ 3d 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 4d ¹		40 鈳 Zr 4 zirconium 91.224 [Kr]5s ² 4d ²		41 鈳 Nb 5,3 niobium 92.906 [Kr]5s ¹ 4d ⁴		42 鈳 Mo 6,5,4,3,2 molybdenum 95.95 [Kr]5s ¹ 4d ⁵		43 鈳 Tc 7 technetium 101.07 [Kr]5s ² 4d ⁵		44 鈳 Ru 2,3,4,6,8 ruthenium 101.07 [Kr]5s ¹ 4d ⁷		45 鈳 Rh 2,3,4 rhodium 102.91 [Kr]5s ¹ 4d ⁸		46 鈳 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 銩 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 銣 Cs 1 cesium 132.91 [Xe]6s ¹		56 鋇 Ba 2 barium 137.33 [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 釷 Ta 5 tantalum 180.95 [Xe]6s ² 4f ¹⁴ 5d ³		74 釷 W 6,5,4,3,2 tungsten 183.84 [Xe]6s ² 4f ¹⁴ 5d ⁴		75 釷 Re 7,6,4,2,-1 rhenium 186.21 [Xe]6s ² 4f ¹⁴ 5d ⁵		76 釷 Os 2,3,4,6,8 osmium 190.23 [Xe]6s ² 4f ¹⁴ 5d ⁶		77 釷 Ir 2,3,4,6 iridium 192.22 [Xe]6s ² 4f ¹⁴ 5d ⁷		78 釷 Pt 2,4 platinum 195.08 [Xe]6s ¹ 4f ¹⁴ 5d ⁹		79 釷 Au 3,1 gold 196.97 [Xe]6s ¹ 4f ¹⁴ 5d ¹⁰		80 釷 Hg 2,1 mercury 200.59 [Xe]6s ² 4f ¹⁴ 5d ¹⁰		81 釷 Tl 3,1 thallium 204.38 [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ¹		82 釷 Pb 4,2 lead 207.2 [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ²		83 釷 Bi 3,5 bismuth 208.98 [Xe]6s ² 4f ¹⁴ 5d ¹⁰ 6p ³		84 釷 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 釷 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 [267] [Rn]7s ² 5f ¹⁴ 6d ²		105 釷 Pb 5,3 dubnium [268] [Rn]7s ² 5f ¹⁴ 6d ³		106 釷 Sg 6,5,4,3 seaborgium [269] [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 [269] [Rn]7s ² 5f ¹⁴ 6d ⁶		109 釷 Mt 6,5,4,3 meitnerium [277] [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 ¹⁰		112 釷 Cn 6,5,4,3 copernicium [285] [Rn]7s ² 5f ¹⁴ 6d ¹⁰		113 釷 Nh 6,5,4,3 nihonium [286] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ¹		114 釷 Fl 6,5,4,3 flerovium [290] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ²		115 釷 Mc 6,5,4,3 moscovium [290] [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 oganeson [294] [Rn]7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁶					

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 173.05 [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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actinoids 鐳系元素

89 鐳 Ac 3 actinium [227] [Rn]7s ² 6d ¹	90 鈰 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 鈰 U 6,5,4,3 uranium 238.03 [Rn]7s ² 5f ³ 6d ¹	93 鈰 Np 6,5,4,3 neptunium [237] [Rn]7s ² 5f ⁴ 6d ¹	94 鈰 Pu 6,5,4,3 plutonium [244] [Rn]7s ² 5f ⁶	95 鈰 Am 6,5,4,3 americium [243] [Rn]7s ² 5f ⁷	96 鈰 Cm 3 curium [247] [Rn]7s ² 5f ⁷ 6d ¹	97 鈰 Bk 4,3 berkelium [247] [Rn]7s ² 5f ⁹	98 鈰 Cf 3 californium [251] [Rn]7s ² 5f ¹⁰	99 鈰 Es 3 einsteinium [252] [Rn]7s ² 5f ¹¹	100 鈰 Fm 3 fermium [257] [Rn]7s ² 5f ¹²	101 鈰 Md 3,2 mendelevium [258] [Rn]7s ² 5f ¹³	102 鈰 No 3,2 nobelium [259] [Rn]7s ² 5f ¹⁴
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