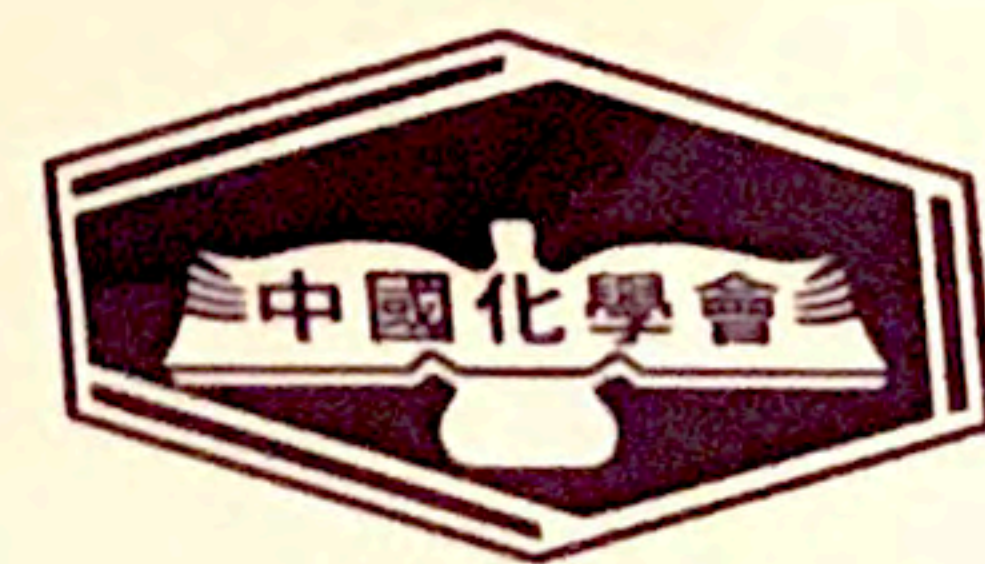


元素週期表

Periodic Table of the Elements



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張炳煌書

1 IA 氫 H -1, 1 1s ¹ 2.2 1.01	2 IIA 鋰 Li 1 2s ¹ 1.0 6.94	3 鋇 Be 2 2s ² 1.5 9.01	11 鈉 Na 1 3s ¹ 1.0 22.99	12 鎂 Mg 2 3s ² 1.2 24.31
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原子序 → 17

中文符號 → 氯

英文符號 → Cl

常見氧化態 → -1, 1, 3, 5, 7

電負度 (Allred-Rochow) → 2.8

氧化態 →

電子組態 → 3s²3p⁵

原子量 → 35.45

- 非金屬
- 類金屬
- 金屬
- Ar 氣體
- Au 固體
- Br 液體

IUPAC, Nomenclature of Inorganic Chemistry, 1989
IUPAC, Rules for Inorganic Nomenclature, 1970
IUPAC, Names of Elements 104-109, 1997

3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIII	9 VIII	10 VIII	11 IB	12 IIB								
19 鉀 K 1 4s ¹ 0.9 39.10	20 鈣 Ca 2 4s ² 1.0 40.08	21 鈾 Sc 3 4s ² 3d ¹ 1.2 44.96	22 鈦 Ti 3, 4 4s ² 3d ² 1.3 47.88	23 鈦 V 2, 3, 4, 5 4s ² 3d ³ 1.5 50.94	24 鉻 Cr 2, 3, 6 4s ¹ 3d ⁵ 1.6 52.00	25 錳 Mn 2, 3, 4, 6, 7 4s ² 3d ⁵ 1.6 54.94	26 鐵 Fe 2, 3, 6 4s ² 3d ⁶ 1.6 55.85	27 鈷 Co 2, 3 4s ² 3d ⁷ 1.7 58.93	28 鎳 Ni 2, 3 4s ² 3d ⁸ 1.8 58.69	29 銅 Cu 1, 2 4s ¹ 3d ¹⁰ 1.8 63.55	30 鋅 Zn 2 4s ² 3d ¹⁰ 1.7 65.39	31 鎵 Ga 3 4s ² 3d ¹⁰ 4p ¹ 1.8 69.72	32 鍺 Ge 4 4s ² 3d ¹⁰ 4p ² 2.0 72.61	33 砷 As -3, 3, 5 4s ² 3d ¹⁰ 4p ³ 2.2 74.92	34 硒 Se -2, 4, 6 4s ² 3d ¹⁰ 4p ⁴ 2.5 78.96	35 溴 Br -1, 1, 3, 5, 7 4s ² 3d ¹⁰ 4p ⁵ 2.7 79.90	36 氬 Kr 2, 4 4s ² 3d ¹⁰ 4p ⁶ 2.4 83.80

57 鐳 La 3 6s ² 5d ¹ 1.1 138.91	58 鈾 Ce 3, 4 6s ² 4f ¹ 5d ¹ 1.1 140.12	59 鐳 Pr 3, 4 6s ² 4f ³ 5d ¹ 1.1 140.91	60 鈾 Nd 3 6s ² 4f ⁴ 5d ¹ 1.1 144.24	61 鈾 Pm 3 6s ² 4f ⁵ 5d ¹ 1.1 (146)	62 鈾 Sm 2, 3 6s ² 4f ⁶ 5d ¹ 1.1 150.36	63 鈾 Eu 2, 3 6s ² 4f ⁷ 5d ¹ 1.0 151.96	64 鈾 Gd 3 6s ² 4f ⁷ 5d ¹ 1.1 157.25	65 鈾 Tb 3, 4 6s ² 4f ⁷ 5d ¹ 1.1 158.93	66 鈾 Dy 3 6s ² 4f ⁹ 5d ¹ 1.1 162.50	67 鈾 Ho 3 6s ² 4f ¹⁰ 5d ¹ 1.1 164.93	68 鈾 Er 3 6s ² 4f ¹¹ 5d ¹ 1.1 167.26	69 鈾 Tm 2, 3 6s ² 4f ¹² 5d ¹ 1.1 168.93	70 鈾 Yb 2, 3 6s ² 4f ¹⁴ 5d ¹ 1.1 173.04	71 鈾 Lu 3 6s ² 4f ¹⁴ 5d ¹ 1.1 174.97
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To Prof. Bassam Z. Shakhshiri
Presented by Prof. Kan-Nan Chen
President, Chemical Society
Taiwan, Republic of China
19th ICCE, August 2006
Seoul, Korea

本化學元素週期表，由書法名家張炳煌教授，以魏碑體親撰，典雅壯麗，並勒石於淡江大學鍾靈化學館，承蒙淡江大學化學系慨允，授予使用權，特誌謝忱
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