

Electron Configuration

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Mn⁴⁺	1s↑↓ 2s↑↓ 2p↑↓↑↓↑↓ 3s↑↓ 3p↑↓↑↓↑↓ 4s__ 3d↑↑__ __
Ba²⁺	1s↑↓ 2s↑↓ 2p↑↓↑↓↑↓ 3s↑↓ 3p↑↓↑↓↑↓ 4s↑↓ 3d↑↓↑↓↑↓↑↓↑↓ 4p↑↓↑↓↑↓ 5s↑↓ 4d↑↓↑↓↑↓↑↓↑↓ 5p↑↓↑↓↑↓ 6s__
Si⁴⁻	1s↑↓ 2s↑↓ 2p↑↓↑↓↑↓ 3s↑↓ 3p↑↓↑↓↑↓

Electron Configuration

Element	Electron Configuration	Shorthand Form of Electron Configuration
Be	$1s^2 2s^2$	[He] $2s^2$
Sb	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^3$	[Kr] $5s^2 4d^{10} 5p^3$
Cl	$1s^2 2s^2 2p^6 3s^2 3p^5$	[Ne] $3s^2 3p^5$
Al	$1s^2 2s^2 2p^6 3s^2 3p^1$	[Ne] $3s^2 3p^1$
K	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$	[Ne] $4s^1$
Au	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^9$ or $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^1 4f^{14} 5d^{10}$	[Xe] $6s^2 4f^{14} 5d^9$ or [Xe] $6s^1 4f^{14} 5d^{10}$
Cr	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^4$ or $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^5$	[Ne] $4s^2 3d^4$ or [Ne] $4s^1 3d^5$
Pb	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^2$	[Xe] $6s^2 4f^{14} 5d^{10} 6p^2$
As	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^3$	[Ar] $4s^2 3d^{10} 4p^3$
I	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^5$	[Kr] $5s^2 4d^{10} 5p^5$
Cl	$1s^2 2s^2 2p^6 3s^2 3p^5$	[Ne] $3s^2 3p^5$
Zn	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$	[Ne] $4s^2 3d^{10}$

Mo	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^4$ or $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1 4d^5$	[Kr] $5s^2 4d^4$ or [Kr] $5s^1 4d^5$
Ag	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1 4d^{10}$	[Kr] $5s^1 4d^{10}$

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Element	Electron Configuration	Shorthand Form of Electron Configuration
N ³⁻	1s ² 2s ² 2p ⁶	[He] 2s ² 2p ⁶
Al ³⁺	1s ² 2s ² 2p ⁶	[He] 2s ² 2p ⁶
Ag ⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 4d ¹⁰	[Kr] 4d ¹⁰
Sn ²⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 5s ² 4d ¹⁰	[Kr] 5s ² 4d ¹⁰
Sn ⁴⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 4d ¹⁰	[Kr] 4d ¹⁰
Cr ³⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ³	[Ar] 3d ³
Rb ⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶	[Ar] 4s ² 3d ¹⁰ 4p ⁶
Mn ²⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵	[Ar] 3d ⁵
Cr ⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵	[Ar] 3d ⁵
Zn ⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ¹⁰	[Ar] 3d ¹⁰
Au ¹⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 5s ² 4d ¹⁰ 5p ⁶ 4f ¹⁴ 5d ¹⁰	[Ar] 4f ¹⁴ 5d ¹⁰
Ge ⁴⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ¹⁰	[Ar] 3d ¹⁰
Au ³⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 5s ² 4d ¹⁰ 5p ⁶ 4f ¹⁴ 5d ⁸	[Ar] 4f ¹⁴ 5d ⁸
Cd ²⁺	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 4d ¹⁰	[Ar] 4d ¹⁰