Electron Configuration

Answers

	Electron Configuration
C	$1s^2\ 2s^2\ 2p^1\ 1\ \_$
Cr	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^1\ 1\ 1\ 1\ 1$ or $4s^1 3d^1\ 1\ 1\ 1\ 1$
Cu^+	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^{10}$
Sn^{2+}	$1s^2 2s^2 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^{10}\ 4p^2\ 5s^2\ 4d^{10}\ 5p\ \_\ \_\ \_$
Zn^{2+}	$1s^2\ 2s^2 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^{10}$
Kr	$1s^2\ 2s^2\ 2p^6\ 3s^2 3p^6\ 4s^2\ 3d^{10}\ 4p^6$
Sn^{4+}	$1s^2 2s^2 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^{10}\ 4p^6\ 5s\ \_\ 4d^{10}\ 5p\ \_\ \_\ \_$
Fe^{2+}	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^6$
O^{2-}	$1s^2\ 2s^2\ 2p^6$
Ni^{3+}	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^7$
Cu^+	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^{10}$
Fe^{3+}	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^5$
Mn^{4+}	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s\ \_\ 3d^3\ \_\ \_$
Ba^{2+}	$1s^2\ 2s^2 2p^6\ 3s^2 3p^6\ 4s^2\ 3d^{10}\ 4p^6\ 5s^2\ 4d^{10}\ 5p^6$
Si^{4-}	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6$

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	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$	[Ar] $4s^1$
Au	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^9$	[Xe] $6s^2 4f^{14} 5d^9$
Cr	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^4$	[Ar] $4s^2 3d^4$
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	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$	[Ar] $4s^2 3d^{10}$
Mo	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^4$ or $5s^1 4d^5$	[Kr] $5s^2 4d^4$ or [Kr] $5s^1 4d^5$
Ag	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^9$ or $5s^1 4d^{10}$	[Kr] $5s^2 4d^9$ or [Kr] $5s^1 4d^{10}$