

Chemical Bonding: MOs

Activity 1: Aufbau for Atoms

Starting around 1900, quantum mechanics was developed and led to a picture that was different than classical physics. Quantum mechanics has led to the development of many scientific theories, but one that is particularly important is the theory of chemical bonding.

The Aufbau Principle: Atoms

Order: $1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

Electron Configuration of Atoms

$1s^2, 2s^2, 2p^6, 3s^2, 3p^4, 4s^1, 3d^5, 4p^1, 5s^2, 4d^1, 5p^4, 6s^2, 4f^7, 5d^1, 6p^4, 7s^2, 5f^7, 6d^1, 7p^4$

$1s^2, 2s^2, 2p^6, 3s^2, 3p^4, 4s^1, 3d^5, 4p^1, 5s^2, 4d^1, 5p^4, 6s^2, 4f^7, 5d^1, 6p^4, 7s^2, 5f^7, 6d^1, 7p^4$

$1s^2, 2s^2, 2p^6, 3s^2, 3p^4, 4s^1, 3d^5, 4p^1, 5s^2, 4d^1, 5p^4, 6s^2, 4f^7, 5d^1, 6p^4, 7s^2, 5f^7, 6d^1, 7p^4$

$1s^2, 2s^2, 2p^6, 3s^2, 3p^4, 4s^1, 3d^5, 4p^1, 5s^2, 4d^1, 5p^4, 6s^2, 4f^7, 5d^1, 6p^4, 7s^2, 5f^7, 6d^1, 7p^4$

$1s^2, 2s^2, 2p^6, 3s^2, 3p^4, 4s^1, 3d^5, 4p^1, 5s^2, 4d^1, 5p^4, 6s^2, 4f^7, 5d^1, 6p^4, 7s^2, 5f^7, 6d^1, 7p^4$

Ordering the MOs

1. Energy levels and the order of filling are given by the Aufbau principle and the order of filling is:

$1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

$1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

$1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

2. Write the energy level diagram for the filling of the orbitals for the atoms:

$1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

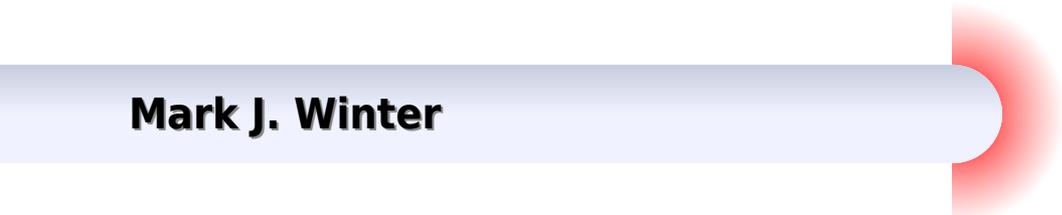
$1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

$1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p$

3. The energy levels and the order of filling are given by the Aufbau principle and the order of filling is:

Chemical Bonding Pogil Answers Key

Mark J. Winter



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