Electronic Structure of Atoms and Molecules

Electronic structure is the state of motion of electrons in an electrostatic field created by stationary nuclei. The term encompass both the wave functions of the electrons and the energies associated with them.

Bohr Diagrams of Atoms and Ions
1s Orbital

H

He

Electronic Configurations

Magnetic Behavior of Diatomic Species

Predicting the Bond-Order of Diatomic Species

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Predicting the Bond-Order of Oxides based Acid Radicals

Predicting the Hybridization of Simple Molecules