

Inorganic Chemistry ACS: Study Guide Exam|334 Questions with Accurate Answers

Ionization energy - -energy required to remove the least tightly bound electron from a neutral atom in the gas phase

- periodic trend of ionization energy - -highest at top right-smaller electron=harder to remove
- Why is a half filled subshell so stable? - -it serves to maximize the stabilizing interactions while minimizing the destabilizing interactions among electrons
- exchange interaction - -pic, stabilizing, result of electrons pairing in degenerate orbitals with parallel spin
- pairing energy - -destabilizing, coulomb interaction, pic, energy of electron-electron repulsion in a filled orbital
- Is it easier to ionize a high energy or low energy electrons - -high energy electron-already contains more energy so it requires less energy input
- What happens when a 3d series metal is ionized? - -the first electron to be ionized will come from the 4s orbital, the other's electron will enter the d orbital ($4s03dn+1$)
- lanthanide contraction - -reduction in atomic radius following the lanthanide series, contrary to the overall trend observed for the periodic table
- lanthanides - -elements 57-71, first appearance of f orbitals, f orbitals are poor at shielding so any electrons added will have a higher Z_{eff} , shrinking the radius
- Slater's rules - -tell us what the effective nuclear charge will be, $Z_{eff}=Z-\sigma$, Z is the atomic number, σ =sum of the number of electrons in a given shell multiplied by a weighting coefficient (page 1)
- Shielding - -the reduction in charge attraction between the nucleus and electrons due to electrons between the nucleus and the electron in question, it is considered to be between if it has a lower energy

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Joshua Rueda

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Chemical and Engineering News ,1962 ACM Transactions on Information Systems ,1997 Books in Series ,1985

Vols for 1980 issued in three parts Series Authors and Titles **BULLETIN of the Atomic Scientists** ,1960-06

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