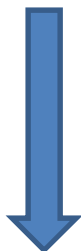


Slides
Condensed Matter Physics
Lecture 5

Small Ionization Energy

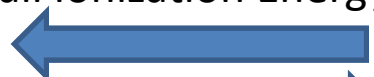


Periodic Table of the Elements

| | | | | | | | | | | | | | | | | | |
|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 H | | | | | | | | | | | | | | | | | 2 He |
| 3 Li | 4 Be | | | | | | | | | | | 5 B | 6 C | 7 N | 8 O | 9 F | 10 Ne |
| 11 Na | 12 Mg | | | | | | | | | | | 13 Al | 14 Si | 15 P | 16 S | 17 Cl | 18 Ar |
| 19 K | 20 Ca | 21 Sc | 22 Ti | 23 V | 24 Cr | 25 Mn | 26 Fe | 27 Co | 28 Ni | 29 Cu | 30 Zn | 31 Ga | 32 Ge | 33 As | 34 Se | 35 Br | 36 Kr |
| 37 Rb | 38 Sr | 39 Y | 40 Zr | 41 Nb | 42 Mo | 43 Tc | 44 Ru | 45 Rh | 46 Pd | 47 Ag | 48 Cd | 49 In | 50 Sn | 51 Sb | 52 Te | 53 I | 54 Xe |
| 55 Cs | 56 Ba | 57 La | 72 Hf | 73 Ta | 74 W | 75 Re | 76 Os | 77 Ir | 78 Pt | 79 Au | 80 Hg | 81 Tl | 82 Pb | 83 Bi | 84 Po | 85 At | 86 Rn |
| 87 Fr | 88 Ra | 89 Ac | 104 Unq | 105 Unp | 106 Unh | 107 Uns | 108 Uno | 109 Une | 110 Unn | | | | | | | | |

- hydrogen
- poor metals
- alkali metals
- nonmetals
- alkali earth metals
- noble gases
- transition metals
- rare earth metals

Small Ionization Energy



Large Affinity

