

(8) Applications – X nuclei in bioinorganic chemistry and biochemistry

Metals in biology – Cd-113

- Study of enzymes (n.a. 12%, usually isotope-enriched)
- Often used to substitute Zn(II) in Zn-binding enzymes, also for Ca(II), Mg(II), Mn(II), Fe(II), Cu(II), or Cd(II)
- Radius comparable: Cd 0.97 Å vs. Ca(II) 0.99 Å, activity of enzyme can be retained

