

これできない まんじんがんない おおかかからないませんかん

Figure 6-1 (Top) Atomic radii of the A group (representative) elements and the noble gases, in angstroms, Å (Section 6-2). Atomic radii increase going down a group because electrons are being added to shells farther from the nucleus. Atomic radii decrease from left in right within a given period owing to increasing effective nuclear charge. Hydrogen atoms are the smallest and cesium atoms are the largest naturally occurring atoms.

(Bottom) Sizes of ions of the A group elements, in angstroms (Section 6-5). Positive ions (cations) are always *smaller* than the neutral atoms from which they are formed. Negative ions (anions) are always *larger* than the neutral atoms from which they are formed.

Atomic radii are often stated in angstroms (1 Å = 10^{-10} m) or in the SI units nanometers (1 nm = 10^{-9} m) or picometers (1 pm = 10^{-12} m). To convert from Å to nm, move the decimal point to the left one place (1 Å = 0.1 nm). For example, the atomic radius of Li is 1.52 Å, or 0.152 nm.